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ABSTRACT

The data presented in this report show trends in doctorate awards by science and engineering field and recipient characteristics, institutions awarding doctorates, and postgraduation plans of recipients. The source of the data is the Survey of Earned Doctorates (SED) conducted annually for the National Science Foundation (NSF) and four other Federal agencies by the National Research Council. Approximately 94 percent of the annual cohort of doctorate recipients in 1995 responded to the questionnaire. (JRH)

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ED 396 936

# Selected Data on Science and Engineering Doctorate Awards 1995

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Selected Data Tables

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Division of Science Resources Studies
Directorate for Social, Behavioral and Economic Sciences

National Science Foundation

NSF 96-303

# Selected Data on Science and Engineering Doctorate Awards

# 1995

Selected Data Tables

Susan T. Hill, Project Officer

Division of Science Resources Studies
Directorate for Social, Behavioral and Economic Sciences

**National Science Foundation**

NSF 96-303

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## Contributors

Tabulations were performed by Barbara DePaul and Teresa Grimes of the Quantum Research Corporation under contract to the National Research Council. The Project Officer for this report was Susan T. Hill.

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# General Notes

The data presented in this report show trends in doctorate awards by science and engineering (S&E) field and recipient characteristics, institutions awarding doctorates, and postgraduation plans of recipients. The source of the data is the Survey of Earned Doctorates (SED).

The SED is conducted annually for the National Science Foundation (NSF) and four other Federal agencies by the National Research Council. Information from this survey becomes part of the Doctorate Records File, which is a census of recipients of research doctorates awarded since 1920 by regionally accredited universities and colleges. Doctoral degrees such as the Ph.D. or D. Sc. are included in these surveys, but first-professional degrees such as the J.D. or M.D. are not.

Data for the SED are collected directly from the individual doctorate recipients. The questionnaire is distributed to them through the cooperation of the graduate deans to persons as they are completing their doctorate. The data for a given year include all doctorates awarded in the 12-month period ending on June 30 of that year.

These tables present detailed data on (S&E) doctorate recipients, with some totals provided for broad non-S&E fields. Detailed data on non-S&E fields are published by the National Research Council and by other Federal sponsors of the Survey of Earned Doctorates. The groupings of field specialties into broad fields may differ among the sponsoring agencies according to their missions; for example, heath fields are not included in the NSF science fields.

Approximately 94 percent of the annual cohort of doctorate recipients in 1995 responded to the questionnaire. Over the decade, though, the response rate ranged from 94 percent in 1986 to 92 percent in 1989 and 94 percent in 1995. Note that most of the numbers presented are actual self-reports, as there are no adjustments for nonresponse. For the nonrespondents, partial data from public sources are added to the file for nonrespondents; therefore complete counts are presented for conferred doctorates by field of study and sex of recipient. Although some tables present data subject to nonresponse, the estimates represent the conservative known estimate for any data item. Therefore, small changes in numbers should be interpreted with caution, as numerical trends are affected by fluctuations in response rates. Thus, declines and increases may appear greater than they actually are.

For information on the availability of additional data for S&E doctorate recipients, please contact—

Susan T. Hill
Division of Science Resources Studies
National Science Foundation
4201 Wilson Boulevard, Suite 965
Arlington, VA. 22230
Telephone: (703) 306-1774
Electronic mail: sthill@nsf.gov

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## Table 1. Science and engineering (S&E) doctorates awarded, by field of study and year of doctorate: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| S&E, total | 19,437 | 19,894 | 20,933 | 21,731 | 22,867 | 24,019 | 24,673 | 25,441 | 26,202 | 26,515 |
| Engineering, total | 3,376 | 3,712 | 4,187 | 4,543 | 4,894 | 5,215 | 5,438 | 5,698 | 5,822 | 6,007 |
| Aeronautical/astronautical engineering | 118 | 142 | 150 | 178 | 192 | 207 | 234 | 228 | 230 | 251 |
| Chemical engineering | 531 | 584 | 685 | 712 | 658 | 691 | 725 | 737 | 725 | 708 |
| Chemical | 476 | 527 | 624 | 625 | 561 | 621 | 607 | 624 | 630 | 602 |
| Petroleum | 18 | 23 | 33 | 29 | 49 | 28 | 54 | 52 | 42 | 48 |
| Polymer/plastics[1] | 37 | 34 | 28 | 58 | 48 | 42 | 64 | 61 | 53 | 58 |
| Civil engineering | 429 | 477 | 531 | 538 | 553 | 575 | 594 | 624 | 684 | 656 |
| Civil | 387 | 441 | 488 | 498 | 505 | 509 | 540 | 563 | 602 | 572 |
| Environmental health | 42 | 36 | 43 | 40 | 48 | 66 | 54 | 61 | 82 | 84 |
| Electrical engineering | 806 | 779 | 1,010 | 1,137 | 1,276 | 1,405 | 1,483 | 1,543 | 1,673 | 1,731 |
| Communications | 23 | 26 | 24 | 25 | 35 | 21 | 30 | 22 | 33 | 29 |
| Computer | 77 | 62 | 100 | 117 | 131 | 178 | 175 | 167 | 202 | 189 |
| Electrical/electronics | 706 | 691 | 886 | 995 | 1,110 | 1,206 | 1,278 | 1,354 | 1,438 | 1,513 |
| Industrial/manufacturing engineering[2] | 101 | 120 | 127 | 162 | 151 | 165 | 196 | 236 | 228 | 283 |
| Materials/metallurgical engineering | 305 | 392 | 374 | 380 | 440 | 489 | 485 | 535 | 539 | 588 |
| Ceramic sciences[3] | 25 | 42 | 30 | 35 | 43 | 58 | 42 | 42 | 39 | 39 |
| Materials science | 187 | 238 | 252 | 257 | 307 | 361 | 365 | 416 | 433 | 476 |
| Metallurgical | 93 | 112 | 92 | 88 | 90 | 70 | 78 | 77 | 67 | 73 |
| Mechanical engineering | 536 | 657 | 715 | 760 | 884 | 875 | 987 | 1,030 | 1,015 | 1,024 |
| Mechanical | 442 | 544 | 610 | 650 | 773 | 762 | 855 | 902 | 883 | 916 |
| Engineering mechanics | 94 | 113 | 105 | 110 | 111 | 113 | 132 | 128 | 132 | 108 |
| Other engineering | 550 | 561 | 595 | 676 | 740 | 808 | 734 | 765 | 728 | 766 |
| Agricultural | 52 | 74 | 70 | 102 | 101 | 84 | 84 | 86 | 89 | 73 |
| Bioengineering/biomedical | 67 | 75 | 114 | 115 | 129 | 149 | 147 | 171 | 173 | 189 |
| Engineering physics | 13 | 13 | 9 | 16 | 16 | 23 | 25 | 21 | 17 | 17 |
| Engineering science | 30 | 26 | 32 | 27 | 37 | 42 | 51 | 55 | 46 | 56 |
| Mining/mineral | 22 | 27 | 17 | 33 | 39 | 38 | 26 | 24 | 23 | 19 |
| Naval architecture/marine[4] | 9 | 7 | 9 | 9 | 8 | 5 | N/A | N/A | N/A | N/A |
| Nuclear | 98 | 84 | 104 | 86 | 114 | 107 | 120 | 108 | 85 | 105 |
| Ocean | 14 | 24 | 21 | 20 | 17 | 21 | 21 | 24 | 29 | 21 |
| Operations research | 54 | 51 | 44 | 68 | 46 | 76 | 56 | 56 | 47 | 48 |
| Systems | 33 | 47 | 44 | 30 | 51 | 48 | 37 | 57 | 51 | 47 |
| Engineering, general | 55 | 54 | 49 | 61 | 75 | 78 | 64 | 47 | 39 | 60 |
| Engineering, other | 103 | 79 | 82 | 109 | 107 | 137 | 103 | 116 | 129 | 131 |
| Sciences, total | 16,061 | 16,182 | 16,746 | 17,188 | 17,973 | 18,804 | 19,235 | 19,743 | 20,380 | 20,508 |
| Physical sciences, total | 3,120 | 3,238 | 3,350 | 3,261 | 3,524 | 3,625 | 3,780 | 3,699 | 3,977 | 3,840 |
| Astronomy | 109 | 100 | 130 | 113 | 128 | 125 | 134 | 145 | 144 | 173 |
| Astronomy | 52 | 46 | 66 | 49 | 52 | 50 | 55 | 76 | 66 | 89 |
| Astrophysics | 57 | 54 | 64 | 64 | 76 | 75 | 79 | 69 | 78 | 84 |
| Chemistry | 1,903 | 1,975 | 2,015 | 1,970 | 2,100 | 2,193 | 2,213 | 2,137 | 2,257 | 2,161 |
| Analytical | 257 | 314 | 301 | 289 | 293 | 304 | 304 | 286 | 334 | 317 |
| Inorganic | 260 | 240 | 250 | 256 | 242 | 260 | 268 | 237 | 262 | 257 |
| Medicinal/pharmaceutical[5] | 58 | 65 | 73 | 64 | 48 | 82 | 68 | 99 | 102 | 96 |
| Nuclear | 18 | 13 | 7 | 6 | 13 | 14 | 7 | 8 | 10 | 5 |
| Organic | 511 | 511 | 531 | 511 | 452 | 538 | 512 | 518 | 544 | 483 |
| Physical | 293 | 302 | 318 | 310 | 325 | 364 | 398 | 336 | 334 | 338 |
| Polymer | 72 | 96 | 81 | 78 | 81 | 111 | 83 | 107 | 117 | 116 |
| Theoretical | 41 | 46 | 50 | 46 | 55 | 45 | 59 | 53 | 52 | 40 |
| Chemistry, general | 289 | 297 | 310 | 312 | 524 | 400 | 449 | 431 | 447 | 458 |
| Chemistry, other | 104 | 91 | 94 | 98 | 67 | 75 | 65 | 62 | 55 | 51 |

See explanatory information, if any, and SOURCE at end of table.

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## Table 1. Science and engineering (S&E) doctorates awarded, by field of study and year of doctorate: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| Physics | 1,078 | 1,137 | 1,172 | 1,161 | 1,265 | 1,286 | 1,403 | 1,399 | 1,548 | 1,479 |
| Acoustics | 15 | 17 | 16 | 15 | 21 | 13 | 18 | 27 | 20 | 18 |
| Chemical & atomic/molecular[6] | 70 | 79 | 77 | 74 | 87 | 76 | 85 | 95 | 140 | 110 |
| Electron[4] | 2 | 6 | 2 | 4 | 2 | 1 | N.A. | N.A. | N.A. | N.A. |
| Elementary particle | 147 | 159 | 174 | 135 | 163 | 182 | 153 | 170 | 176 | 183 |
| Fluids | 6 | 21 | 17 | 14 | 17 | 14 | 17 | 19 | 12 | 18 |
| Nuclear | 89 | 74 | 88 | 81 | 73 | 66 | 86 | 82 | 90 | 91 |
| Optics | 58 | 50 | 65 | 78 | 76 | 85 | 94 | 96 | 104 | 98 |
| Plasma & high-temperature[7] | 61 | 72 | 65 | 61 | 42 | 58 | 65 | 62 | 79 | 46 |
| Polymer | 11 | 15 | 20 | 7 | 11 | 17 | 17 | 29 | 29 | 23 |
| Solid state & low temperature[8] | 280 | 287 | 252 | 296 | 306 | 372 | 408 | 336 | 388 | 371 |
| Physics, general | 222 | 238 | 271 | 269 | 323 | 247 | 297 | 340 | 343 | 355 |
| Physics, other | 117 | 119 | 125 | 127 | 144 | 155 | 163 | 143 | 167 | 166 |
| Other physical sciences | 30 | 26 | 33 | 17 | 31 | 21 | 30 | 18 | 28 | 27 |
| Earth, atmospheric, and ocean sciences, total | 559 | 602 | 695 | 723 | 738 | 815 | 794 | 771 | 824 | 778 |
| Atmospheric sciences | 78 | 87 | 103 | 87 | 83 | 108 | 120 | 99 | 129 | 130 |
| Atmospheric dynamics | 16 | 17 | 25 | 16 | 20 | 21 | 23 | 23 | 27 | 16 |
| Atmospheric physics/chemistry | 21 | 24 | 19 | 15 | 18 | 20 | 36 | 13 | 27 | 27 |
| Meteorology | 27 | 17 | 35 | 27 | 20 | 31 | 28 | 34 | 32 | 25 |
| Atmospheric science/meteorology, general | 7 | 16 | 14 | 14 | 23 | 26 | 27 | 22 | 37 | 44 |
| Atmospheric science/meteorology, other | 7 | 13 | 10 | 15 | 2 | 10 | 6 | 7 | 6 | 18 |
| Geosciences | 346 | 375 | 425 | 455 | 477 | 560 | 503 | 479 | 509 | 454 |
| Applied geology[4] | 4 | 5 | 7 | 6 | 6 | 1 | N.A. | N.A. | N.A. | N.A. |
| Geology | 118 | 114 | 144 | 165 | 166 | 192 | 166 | 197 | 194 | 186 |
| Geochemistry | 37 | 31 | 46 | 39 | 56 | 64 | 62 | 50 | 59 | 42 |
| Geomorphology/glacial geology | 11 | 18 | 9 | 10 | 14 | 18 | 12 | 16 | 13 | 11 |
| Geophysics/seismology | 89 | 75 | 83 | 87 | 91 | 117 | 108 | 101 | 106 | 93 |
| Hydrology/water resources | 16 | 18 | 24 | 24 | 13 | 16 | 29 | 25 | 30 | 24 |
| Mineralogy/petrology | 17 | 24 | 19 | 36 | 26 | 36 | 29 | 9 | 21 | 19 |
| Paleontology | 16 | 21 | 24 | 17 | 21 | 24 | 25 | 21 | 17 | 20 |
| Stratigraphy/sedimentation | 14 | 22 | 30 | 24 | 25 | 29 | 23 | 28 | 27 | 16 |
| Geological & related sciences, general | 12 | 18 | 8 | 19 | 31 | 30 | 18 | 15 | 18 | 21 |
| Geological & related sciences, other | 12 | 29 | 31 | 28 | 28 | 33 | 31 | 17 | 24 | 22 |
| Oceanography | 100 | 111 | 109 | 113 | 128 | 112 | 114 | 125 | 125 | 114 |
| Marine sciences | 22 | 38 | 28 | 26 | 39 | 27 | 32 | 27 | 34 | 31 |
| Oceanography | 78 | 73 | 81 | 87 | 89 | 85 | 82 | 98 | 91 | 83 |
| Other environmental sciences | 35 | 29 | 58 | 68 | 50 | 35 | 57 | 68 | 61 | 80 |
| Mathematical/computer sciences, total | 1,128 | 1,190 | 1,264 | 1,471 | 1,597 | 1,839 | 1,927 | 2,026 | 2,021 | 2,188 |
| Mathematics, total | 729 | 740 | 749 | 859 | 892 | 1,039 | 1,058 | 1,146 | 1,118 | 1,190 |
| Algebra | 46 | 57 | 54 | 50 | 39 | 72 | 69 | 84 | 78 | 82 |
| Analysis/functional analysis | 81 | 86 | 76 | 103 | 90 | 132 | 105 | 105 | 107 | 99 |
| Applied mathematics | 135 | 131 | 142 | 158 | 185 | 193 | 213 | 188 | 206 | 211 |
| Computing theory | 10 | 14 | 12 | 12 | 12 | 19 | 12 | 18 | 16 | 14 |
| Geometry | 38 | 30 | 44 | 47 | 42 | 66 | 45 | 44 | 35 | 45 |
| Logic | 23 | 18 | 20 | 12 | 19 | 23 | 28 | 19 | 29 | 35 |
| Mathematical statistics[9] | 141 | 143 | 152 | 167 | 157 | 206 | 217 | 228 | 205 | 205 |
| Number theory | 20 | 15 | 26 | 23 | 26 | 30 | 25 | 42 | 37 | 35 |
| Operations research | 29 | 22 | 29 | 22 | 29 | 16 | 22 | 37 | 26 | 36 |
| Topology | 34 | 41 | 27 | 37 | 50 | 57 | 58 | 54 | 38 | 51 |
| Mathematics, general | 125 | 137 | 134 | 177 | 191 | 180 | 209 | 276 | 269 | 305 |
| Mathematics, other | 47 | 46 | 33 | 51 | 52 | 45 | 55 | 51 | 72 | 72 |
| Computer sciences, total | 399 | 450 | 515 | 612 | 705 | 800 | 869 | 880 | 903 | 998 |
| Computer science | 355 | 384 | 442 | 519 | 612 | 720 | 791 | 825 | 833 | 914 |
| Information science/systems | 44 | 66 | 73 | 93 | 93 | 80 | 78 | 55 | 70 | 84 |

See explanatory information, if any, and SOURCE at end of table.

## Table 1. Science and engineering (S&E) doctorates awarded, by field of study and year of doctorate: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| Biological/agricultural sciences, total | 4,804 | 4,815 | 5,127 | 5,201 | 5,501 | 5,719 | 5,861 | 6,059 | 6,278 | 6,406 |
| Biological sciences, total | 3,807 | 3,839 | 4,112 | 4,115 | 4,327 | 4,646 | 4,798 | 5,091 | 5,200 | 5,370 |
| Bacteriology | 12 | 13 | 7 | 11 | 15 | 11 | 13 | 14 | 18 | 13 |
| Biochemistry | 576 | 573 | 613 | 669 | 678 | 765 | 715 | 846 | 804 | 825 |
| Biomedical sciences[10] | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 93 |
| Biophysics | 72 | 86 | 97 | 87 | 103 | 100 | 125 | 103 | 123 | 154 |
| Biotechnology research[11] | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 8 | 14 | 4 |
| Plant genetics | 20 | 26 | 26 | 18 | 31 | 23 | 33 | 41 | 30 | 35 |
| Plant pathology | 28 | 33 | 30 | 22 | 37 | 50 | 32 | 41 | 40 | 32 |
| Plant physiology | 52 | 62 | 74 | 47 | 51 | 65 | 68 | 48 | 70 | 55 |
| Botany, other | 121 | 106 | 112 | 117 | 104 | 105 | 107 | 105 | 117 | 102 |
| Anatomy | 86 | 92 | 88 | 80 | 70 | 77 | 75 | 76 | 66 | 65 |
| Biometrics/biostatistics | 30 | 37 | 47 | 48 | 47 | 59 | 63 | 74 | 72 | 67 |
| Cell biology | 130 | 127 | 118 | 136 | 145 | 149 | 188 | 231 | 237 | 236 |
| Developmental biology/embryology[12] | 9 | 6 | 7 | 10 | 22 | 37 | 48 | 57 | 62 | 64 |
| Ecology | 183 | 158 | 155 | 161 | 166 | 189 | 180 | 177 | 201 | 203 |
| Endocrinology | 17 | 19 | 21 | 21 | 24 | 33 | 27 | 16 | 26 | 20 |
| Entomology | 170 | 123 | 133 | 139 | 147 | 138 | 139 | 114 | 123 | 121 |
| Biological immunology[13] | 146 | 136 | 179 | 152 | 153 | 177 | 181 | 169 | 161 | 191 |
| Microbiology | 326 | 301 | 333 | 340 | 335 | 372 | 377 | 433 | 423 | 426 |
| Molecular biology | 298 | 303 | 364 | 413 | 413 | 481 | 527 | 582 | 598 | 618 |
| Neuroscience | 120 | 153 | 163 | 181 | 192 | 238 | 238 | 276 | 284 | 305 |
| Nutritional sciences | 122 | 141 | 127 | 128 | 118 | 106 | 132 | 134 | 147 | 136 |
| Parasitology | 25 | 16 | 20 | 20 | 13 | 20 | 17 | 17 | 22 | 14 |
| Toxicology | 104 | 115 | 108 | 111 | 91 | 86 | 105 | 100 | 120 | 123 |
| Human/animal genetics | 91 | 113 | 118 | 112 | 153 | 160 | 142 | 172 | 203 | 202 |
| Human/animal pathology | 91 | 127 | 112 | 105 | 101 | 122 | 114 | 130 | 128 | 109 |
| Human/animal pharmacology | 245 | 234 | 252 | 241 | 243 | 262 | 278 | 273 | 256 | 274 |
| Human/animal physiology | 240 | 248 | 225 | 272 | 278 | 272 | 266 | 271 | 289 | 262 |
| Zoology, other | 155 | 139 | 167 | 132 | 122 | 125 | 134 | 114 | 117 | 145 |
| Biological sciences, general | 213 | 229 | 256 | 231 | 333 | 278 | 315 | 305 | 288 | 350 |
| Biological sciences, other | 125 | 123 | 160 | 116 | 142 | 146 | 159 | 164 | 161 | 126 |
| Agricultural sciences, total | 997 | 976 | 1,015 | 1,086 | 1,174 | 1,073 | 1,063 | 968 | 1,078 | 1,036 |
| Agronomy & crop science[14] | 159 | 143 | 141 | 140 | 143 | 117 | 123 | 104 | 143 | 114 |
| Animal breeding/genetics | 25 | 23 | 27 | 23 | 22 | 18 | 23 | 18 | 17 | 19 |
| Animal nutrition | 65 | 82 | 54 | 67 | 54 | 57 | 41 | 52 | 58 | 50 |
| Dairy science[15] | N/A | N/A | 12 | 16 | 20 | 19 | 14 | 11 | 11 | 14 |
| Poultry science[15] | N/A | N/A | 10 | 11 | 17 | 13 | 22 | 16 | 21 | 11 |
| Animal sciences, other | 91 | 76 | 86 | 95 | 90 | 92 | 97 | 74 | 86 | 85 |
| Fisheries science & management[16] | 31 | 32 | 42 | 34 | 42 | 39 | 26 | 38 | 48 | 49 |
| Wildlife/range management[17] | 20 | 23 | 39 | 52 | 58 | 59 | 55 | 54 | 52 | 50 |
| Food science[18] | 121 | 131 | 16 | 1 | N/A | N/A | N/A | N/A | N/A | N/A |
| Food engineering[18] | N/A | N/A | 6 | 11 | 10 | 12 | 14 | 9 | 16 | 7 |
| Food sciences, other[18] | N/A | N/A | 119 | 147 | 141 | 137 | 151 | 141 | 153 | 135 |
| Forestry science[19] | 88 | 100 | 15 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Forest biology[19] | N/A | N/A | 21 | 22 | 27 | 17 | 29 | 18 | 20 | 24 |
| Forest engineering[19] | N/A | N/A | 3 | 1 | 2 | 2 | 2 | 3 | N/A | 4 |
| Forest management[19] | N/A | N/A | 18 | 21 | 14 | 22 | 16 | 17 | 17 | 20 |
| Wood science & pulp/paper technology[19] | N/A | N/A | 7 | 16 | 16 | 16 | 21 | 20 | 26 | 25 |
| Conservation/renewable natural resources[19] | N/A | N/A | 7 | 12 | 16 | 19 | 9 | 13 | 21 | 24 |
| Forestry & related sciences, other[19] | N/A | N/A | 35 | 57 | 62 | 45 | 62 | 55 | 59 | 72 |
| Horticulture science | 60 | 71 | 61 | 75 | 101 | 78 | 65 | 62 | 65 | 67 |
| Plant breeding/genetics | 78 | 70 | 83 | 64 | 87 | 69 | 82 | 68 | 81 | 72 |
| Plant pathology | 85 | 76 | 46 | 63 | 64 | 90 | 63 | 58 | 55 | 52 |
| Plant protection/pest management[20] | N/A | N/A | 1 | 6 | 4 | 2 | N/A | N/A | N/A | N/A |
| Plant sciences, other | 22 | 20 | 23 | 15 | 23 | 17 | 29 | 28 | 24 | 30 |
| Soil sciences[21] | 103 | 74 | 18 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Soil chemistry/microbiology[21] | N/A | N/A | 33 | 28 | 27 | 24 | 24 | 26 | 21 | 27 |
| Soil sciences, other[21] | N/A | N/A | 62 | 75 | 91 | 78 | 63 | 59 | 69 | 72 |
| Agricultural sciences, general | 4 | 5 | 9 | 7 | 5 | 3 | 9 | 10 | 4 | 6 |
| Agricultural sciences, other | 45 | 50 | 21 | 27 | 38 | 28 | 23 | 14 | 11 | 7 |

See explanatory information, if any, and SOURCE at end of table.

## Table 1. Science and engineering (S&E) doctorates awarded, by field of study and year of doctorate: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| Psychology, total | 3,126 | 3,173 | 3,074 | 3,208 | 3,281 | 3,250 | 3,263 | 3,419 | 3,380 | 3,419 |
| Clinical | 1,173 | 1,214 | 1,095 | 1,259 | 1,337 | 1,305 | 1,309 | 1,373 | 1,285 | 1,292 |
| Cognitive psychology & psycholinguistics[22] | 70 | 80 | 83 | 79 | 76 | 94 | 101 | 104 | 129 | 104 |
| Comparative | 14 | 9 | 7 | 8 | 8 | 7 | 2 | 5 | 8 | 4 |
| Counseling | 449 | 486 | 482 | 501 | 466 | 497 | 507 | 488 | 497 | 470 |
| Developmental & child[23] | 184 | 200 | 176 | 148 | 159 | 155 | 170 | 202 | 180 | 153 |
| Educational | 106 | 89 | 103 | 105 | 98 | 110 | 91 | 91 | 69 | 74 |
| Experimental | 147 | 146 | 135 | 146 | 143 | 142 | 154 | 143 | 139 | 151 |
| Family & marriage counseling[10] | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 51 |
| Industrial/organizational | 110 | 107 | 118 | 104 | 126 | 142 | 138 | 158 | 137 | 145 |
| Physiological psychobiology[24] | 73 | 69 | 85 | 62 | 46 | 45 | 55 | 85 | 93 | 93 |
| Quantitative | 23 | 13 | 12 | 11 | 15 | 7 | 10 | 16 | 17 | 13 |
| Personality | 16 | 25 | 18 | 28 | 20 | 13 | 17 | 22 | 19 | 16 |
| Psychometrics | 11 | 9 | 11 | 6 | 8 | 9 | 5 | 9 | 5 | 10 |
| School | 116 | 93 | 115 | 107 | 82 | 82 | 88 | 95 | 84 | 91 |
| Social | 141 | 133 | 140 | 128 | 145 | 147 | 139 | 125 | 153 | 155 |
| Psychology, general | 309 | 343 | 368 | 364 | 371 | 324 | 295 | 306 | 280 | 307 |
| Psychology, other | 184 | 157 | 126 | 152 | 181 | 171 | 182 | 197 | 285 | 290 |
| Social sciences, total | 3,324 | 3,164 | 3,236 | 3,324 | 3,332 | 3,556 | 3,610 | 3,769 | 3,900 | 3,877 |
| Economics | 1,019 | 960 | 1,008 | 1,062 | 1,007 | 1,053 | 1,051 | 1,067 | 1,101 | 1,153 |
| Agricultural economics | 160 | 139 | 156 | 164 | 145 | 168 | 141 | 137 | 162 | 173 |
| Econometrics | 25 | 25 | 27 | 26 | 26 | 24 | 25 | 24 | 26 | 26 |
| Economics | 834 | 796 | 825 | 872 | 836 | 861 | 885 | 906 | 913 | 954 |
| Political science | 659 | 647 | 634 | 700 | 734 | 740 | 804 | 824 | 930 | 893 |
| International relations & affairs[25] | 76 | 82 | 77 | 94 | 97 | 88 | 76 | 102 | 112 | 72 |
| Political science/government | 414 | 404 | 392 | 430 | 462 | 434 | 513 | 507 | 589 | 600 |
| Public administration | 88 | 78 | 92 | 97 | 88 | 107 | 108 | 117 | 135 | 129 |
| Public policy analysis[26] | 81 | 83 | 73 | 79 | 87 | 111 | 107 | 98 | 94 | 92 |
| Sociology | 506 | 449 | 468 | 458 | 448 | 493 | 512 | 535 | 548 | 554 |
| Demography/population studies[27] | 15 | 26 | 19 | 22 | 20 | 28 | 17 | 22 | 23 | 15 |
| Sociology | 491 | 423 | 449 | 436 | 428 | 465 | 495 | 513 | 525 | 539 |
| Other social sciences | 1,140 | 1,108 | 1,126 | 1,104 | 1,143 | 1,270 | 1,243 | 1,343 | 1,321 | 1,277 |
| American studies | 68 | 75 | 70 | 76 | 72 | 92 | 81 | 101 | 88 | 94 |
| Anthropology | 381 | 352 | 325 | 325 | 324 | 341 | 320 | 342 | 384 | 375 |
| Archaeology | 28 | 31 | 23 | 26 | 22 | 33 | 33 | 38 | 34 | 35 |
| Area studies | 28 | 17 | 16 | 17 | 22 | 24 | 33 | 36 | 34 | 27 |
| Criminology | 24 | 29 | 43 | 32 | 42 | 35 | 37 | 39 | 41 | 44 |
| Geography | 120 | 111 | 129 | 105 | 131 | 108 | 111 | 137 | 146 | 150 |
| History/philosophy of science & technology[28] | 24 | 25 | 22 | 20 | 26 | 27 | 28 | 37 | 26 | 41 |
| Linguistics | 189 | 199 | 166 | 188 | 167 | 227 | 266 | 214 | 221 | 201 |
| Statistics | 65 | 49 | 47 | 69 | 69 | 31 | 29 | 48 | 46 | 48 |
| Urban affairs & studies[29] | 50 | 72 | 86 | 62 | 67 | 90 | 86 | 123 | 132 | 103 |
| Social sciences, general | 36 | 30 | 28 | 26 | 23 | 36 | 33 | 32 | 21 | 35 |
| Social sciences, other | 127 | 118 | 171 | 158 | 178 | 226 | 186 | 196 | 148 | 124 |

See explanatory information, if any, and SOURCE at end of table

## Table 1. Science and engineering (S&E) doctorates awarded, by field of study and year of doctorate: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| Non-S&E, total [30] | 12,465 | 12,476 | 12,568 | 12,595 | 13,200 | 13,503 | 14,183 | 14,330 | 14,815 | 15,095 |
| Health | 770 | 800 | 882 | 974 | 956 | 1,041 | 1,112 | 1,197 | 1,296 | 1,331 |
| Humanities [31] | 3,152 | 3,170 | 3,274 | 3,242 | 3,535 | 3,720 | 4,037 | 4,095 | 4,376 | 4,690 |
| Education | 6,649 | 6,454 | 6,362 | 6,281 | 6,511 | 6,446 | 6,644 | 6,661 | 6,695 | 6,546 |
| Professional/other | 1,894 | 2,052 | 2,050 | 2,098 | 2,198 | 2,296 | 2,390 | 2,377 | 2,448 | 2,528 |
| Grand total, all fields | 31,902 | 32,370 | 33,501 | 34,326 | 36,067 | 37,522 | 38,856 | 39,771 | 41,017 | 41,610 |

1 In 1993 this subfield was changed from "Polymer engineering" to "Polymer and plastics engineering."

2 In 1993 this subfield was changed from "Industrial engineering" to "Industrial and manufacturing engineering."

3 In 1993 this subfield was changed from "Ceramic engineering" to "Ceramic sciences engineering."

4 This subfield was deleted in 1991.

5 In 1993 this subfield was changed from "Pharmaceutical chemistry" to "Medicinal and pharmaceutical chemistry."

6 In 1993 this subfield was changed from "Atomic/molecular physics" to "Chemical and atomic/molecular physics."

7 In 1993 this subfield was changed from "Plasma physics" to "Plasma and high-temperature physics."

8 In 1993 this subfield was changed from "Solid state physics" to "Solid state and low-temperature physics."

9 In 1993 this subfield was changed from "Math probability and statistics" to "Mathematical statistics."

10 This subfield was introduced in 1995.

11 "Biotechnology research" was introduced in 1993.

12 In 1990 this subfield was changed from "Embryology" to "Developmental biology and embryology."

13 In 1993 this subfield was changed from "Immunology" to "Biological immunology."

14 In 1993 this subfield was changed from "Agronomy" to "Agronomy and crop science."

15 This subfield was introduced in 1988.

16 In 1993 this subfield was changed from "Fisheries science" to "Fisheries science and management."

17 In 1988 this subfield was changed from "Wildlife management" to "Wildlife and range management."

18 In 1988 "Food sciences" was separated into "Food distribution," "Food engineering," and "Food sciences, other."

19 In 1988 "Forestry science" was separated into "Forest biology," "Forest engineering," "Forest management," "Wood science," "Renewable natural resources," and "Foresty and related sciences, other." In 1993 "Pulp and paper technology" was added to "Wood science," and "Conservation" was added to "Renewable natural resources." "Forest engineering" was deleted from the survey in 1994 and reintroduced in 1995.

20 "Plant protection-pest management" was introduced in 1988 and deleted in 1991.

21 In 1988 "Soil sciences" was separated into "Soil chemistry and microbiology" and "Soil sciences, other."

22 In 1993 this subfield was changed from "Cognitive psychology" to "Cognitive psychology and psycholinguistics."

23 In 1993 this subfield was changed from "Developmental psychology" to "Developmental and child psychology."

24 In 1993 this subfield was changed from "Physiological psychology" to "Physiological psychology and psychobiology."

25 In 1993 this subfield was changed from "International relations" to "International relations and affairs."

26 In 1993 this subfield was changed from "Public policy studies" to "Public policy analysis."

27 In 1993 this subfield was changed from "Demography" to "Demography and population studies."

28 In 1993 this subfield was changed from "History of science" to "History and philosophy of science and technology."

29 In 1993 this subfield was changed from "Urban studies" to "Urban affairs and studies."

30 Non-S&E doctorates include those whose field of specialization is unknown.

31 Categories differ from those published by other Federal sponsors and the National Research Council in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

**KEY:** N/A = Not available (i.e., the subfield was not identified separately in the questionnaire for that year)

**SOURCE:** National Science Foundation/SRS, Survey of Earned Doctorates

## Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Percent women | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | 1986 | 1995 |
| S&E, total | 5,167 | 5,312 | 5,662 | 6,109 | 6,369 | 6,931 | 7,080 | 7,652 | 7,919 | 8,273 | 26.6 | 31.2 |
| Engineering, total | 225 | 242 | 286 | 375 | 415 | 467 | 506 | 522 | 635 | 694 | 6.7 | 11.6 |
| Aeronautical/astronautical engineering | 1 | 10 | 9 | 8 | 4 | 7 | 8 | 8 | 11 | 14 | 8 | 5.6 |
| Chemical engineering | 61 | 60 | 65 | 80 | 78 | 83 | 113 | 94 | 113 | 109 | 11.5 | 15.4 |
| Chemical | 53 | 56 | 60 | 74 | 71 | 75 | 101 | 83 | 101 | 96 | 11.1 | 15.9 |
| Petroleum | 1 | 0 | 2 | 1 | 0 | 1 | 3 | 5 | 3 | 1 | 5.6 | 2.1 |
| Polymer/plastics[1] | 7 | 4 | 3 | 5 | 7 | 7 | 9 | 6 | 9 | 12 | 18.9 | 20.7 |
| Civil engineering | 21 | 18 | 30 | 54 | 49 | 41 | 50 | 54 | 80 | 76 | 4.9 | 11.6 |
| Civil | 19 | 17 | 25 | 45 | 39 | 31 | 36 | 45 | 56 | 55 | 4.9 | 9.6 |
| Environmental health | 2 | 1 | 5 | 9 | 10 | 10 | 14 | 9 | 24 | 21 | 4.8 | 25.0 |
| Electrical engineering | 38 | 32 | 48 | 67 | 84 | 79 | 115 | 125 | 147 | 173 | 4.7 | 10.0 |
| Communications | 0 | 0 | 3 | 1 | 2 | 2 | 1 | 2 | 5 | 5 | 0 | 17.2 |
| Computer | 5 | 2 | 7 | 12 | 11 | 9 | 13 | 15 | 25 | 18 | 6.5 | 9.5 |
| Electrical/electronics | 33 | 30 | 38 | 54 | 71 | 68 | 101 | 108 | 117 | 150 | 4.7 | 9.9 |
| Industrial/manufacturing engineering[2] | 14 | 13 | 19 | 18 | 25 | 17 | 25 | 27 | 33 | 50 | 13.9 | 17.7 |
| Materials/metallurgical engineering | 24 | 45 | 33 | 45 | 49 | 77 | 61 | 78 | 83 | 94 | 7.9 | 16.0 |
| Ceramic sciences[3] | 3 | 4 | 3 | 4 | 11 | 10 | 9 | 6 | 9 | 5 | 12.0 | 12.8 |
| Materials science | 18 | 36 | 25 | 35 | 31 | 59 | 50 | 67 | 69 | 84 | 9.6 | 17.6 |
| Metallurgical | 3 | 5 | 5 | 6 | 7 | 8 | 2 | 5 | 5 | 5 | 3.2 | 6.8 |
| Mechanical engineering | 18 | 17 | 29 | 29 | 38 | 57 | 45 | 57 | 69 | 63 | 3.4 | 6.2 |
| Mechanical | 14 | 14 | 26 | 22 | 29 | 50 | 33 | 46 | 60 | 55 | 3.2 | 6.0 |
| Engineering mechanics | 4 | 3 | 3 | 7 | 9 | 7 | 12 | 11 | 9 | 8 | 4.3 | 7.4 |
| Other engineering | 48 | 47 | 53 | 74 | 88 | 106 | 89 | 79 | 99 | 115 | 8.7 | 15.0 |
| Agricultural | 1 | 3 | 3 | 6 | 7 | 8 | 6 | 6 | 10 | 7 | 1.9 | 9.6 |
| Bioengineering/biomedical | 9 | 15 | 18 | 26 | 23 | 27 | 33 | 31 | 45 | 48 | 13.4 | 25.4 |
| Engineering physics | 0 | 1 | 0 | 0 | 1 | 2 | 2 | 3 | 3 | 1 | 0 | 5.9 |
| Engineering science | 3 | 0 | 3 | 3 | 6 | 3 | 6 | 3 | 3 | 6 | 10.0 | 10.7 |
| Mining/mineral | 2 | 1 | 1 | 4 | 2 | 6 | 3 | 1 | 3 | 0 | 9.1 | 0 |
| Naval architecture/marine[4] | 0 | 0 | 0 | 1 | 1 | 0 | N/A | N/A | N/A | N/A | 0 | . |
| Nuclear | 6 | 2 | 4 | 7 | 9 | 6 | 9 | 5 | 8 | 9 | 6.1 | 8.6 |
| Ocean | 0 | 1 | 0 | 2 | 2 | 1 | 0 | 1 | 2 | 3 | 0 | 14.3 |
| Operations research | 11 | 7 | 4 | 14 | 6 | 22 | 11 | 10 | 7 | 8 | 20.4 | 16.7 |
| Systems | 2 | 3 | 7 | 3 | 3 | 4 | 3 | 4 | 5 | 5 | 6.1 | 10.6 |
| Engineering, general | 5 | 8 | 2 | 2 | 10 | 7 | 3 | 3 | 4 | 9 | 9.1 | 15.0 |
| Engineering, other | 9 | 6 | 11 | 6 | 18 | 20 | 13 | 12 | 9 | 19 | 8.7 | 14.5 |
| Sciences, total | 4,942 | 5,070 | 5,376 | 5,734 | 5,954 | 6,464 | 6,574 | 7,130 | 7,284 | 7,579 | 30.8 | 37.0 |
| Physical sciences, total | 510 | 528 | 567 | 619 | 661 | 679 | 770 | 780 | 828 | 878 | 16.3 | 22.9 |
| Astronomy | 9 | 13 | 16 | 17 | 20 | 14 | 19 | 25 | 25 | 30 | 8.3 | 17.3 |
| Astronomy | 4 | 7 | 13 | 8 | 13 | 7 | 11 | 12 | 9 | 18 | 7.7 | 20.2 |
| Astrophysics | 5 | 6 | 3 | 9 | 7 | 7 | 8 | 13 | 16 | 12 | 8.8 | 14.3 |
| Chemistry | 396 | 406 | 427 | 499 | 503 | 517 | 579 | 582 | 625 | 661 | 20.8 | 30.6 |
| Analytical | 46 | 72 | 60 | 63 | 68 | 83 | 95 | 91 | 102 | 109 | 17.9 | 34.4 |
| Inorganic | 62 | 59 | 66 | 74 | 60 | 73 | 69 | 59 | 87 | 92 | 23.8 | 35.8 |
| Medicinal/pharmaceutical[5] | 17 | 16 | 19 | 21 | 20 | 27 | 27 | 38 | 26 | 32 | 29.3 | 33.3 |
| Nuclear | 2 | 0 | 0 | 0 | 2 | 4 | 1 | 0 | 0 | 3 | 11.1 | 60.0 |
| Organic | 96 | 88 | 89 | 105 | 104 | 108 | 119 | 131 | 128 | 134 | 18.8 | 27.7 |
| Physical | 71 | 59 | 71 | 87 | 76 | 86 | 109 | 88 | 93 | 93 | 24.2 | 27.5 |
| Polymer | 12 | 13 | 12 | 15 | 13 | 24 | 12 | 22 | 23 | 28 | 16.7 | 24.1 |
| Theoretical | 6 | 17 | 9 | 9 | 14 | 7 | 16 | 16 | 17 | 10 | 14.6 | 25.0 |
| Chemistry, general | 52 | 53 | 73 | 91 | 128 | 76 | 107 | 112 | 126 | 135 | 18.0 | 29.5 |
| Chemistry, other | 32 | 29 | 28 | 34 | 18 | 29 | 24 | 25 | 23 | 25 | 30.8 | 49.0 |

See explanatory information, if any, and SOURCE at end of table.

## Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Percent women | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | 1986 | 1995 |
| Physics | 100 | 107 | 114 | 101 | 130 | 142 | 167 | 169 | 175 | 182 | 9.3 | 12.3 |
| Acoustics | 2 | 0 | 2 | 0 | 2 | 2 | 0 | 1 | 2 | 3 | 13.3 | 16.7 |
| Chemical & atomic molecular[6] | 6 | 4 | 8 | 8 | 7 | 4 | 6 | 14 | 17 | 15 | 8.6 | 13.6 |
| Electron[4] | 0 | 0 | 0 | 0 | 0 | 0 | N/A | N/A | N/A | N/A | 0 | |
| Elementary particle | 11 | 15 | 16 | 10 | 14 | 20 | 12 | 18 | 16 | 7 | 7.5 | 3.8 |
| Fluids | 2 | 0 | 0 | 1 | 1 | 0 | 1 | 2 | 1 | 0 | 33.3 | 0 |
| Nuclear | 8 | 4 | 6 | 8 | 5 | 7 | 12 | 8 | 9 | 12 | 9.0 | 13.2 |
| Optics | 9 | 5 | 6 | 7 | 5 | 13 | 9 | 14 | 14 | 13 | 15.5 | 13.3 |
| Plasma & high-temperature[7] | 3 | 5 | 4 | 4 | 2 | 2 | 4 | 4 | 8 | 5 | 4.9 | 10.9 |
| Polymer | 3 | 3 | 0 | 1 | 3 | 3 | 1 | 5 | 4 | 3 | 27.3 | 13.0 |
| Solid state & low temperature[8] | 29 | 24 | 35 | 23 | 35 | 42 | 53 | 42 | 53 | 57 | 10.4 | 15.4 |
| Physics, general | 18 | 31 | 25 | 19 | 33 | 31 | 42 | 46 | 30 | 41 | 8.1 | 11.5 |
| Physics, other | 9 | 16 | 12 | 20 | 23 | 18 | 27 | 15 | 21 | 26 | 7.7 | 15.7 |
| Other physical sciences | 5 | 2 | 10 | 2 | 8 | 6 | 5 | 4 | 3 | 5 | 16.7 | 18.5 |
| Earth, atmospheric, and ocean sciences, total | 95 | 112 | 135 | 148 | 141 | 179 | 188 | 160 | 183 | 170 | 17.0 | 21.9 |
| Atmospheric sciences | 8 | 14 | 11 | 10 | 14 | 16 | 27 | 18 | 26 | 23 | 10.3 | 17.7 |
| Atmospheric dynamics | 2 | 3 | 2 | 2 | 4 | 3 | 4 | 5 | 9 | 3 | 12.5 | 18.8 |
| Atmospheric physics chemistry | 3 | 4 | 0 | 2 | 1 | 2 | 5 | 2 | 5 | 8 | 14.3 | 29.6 |
| Meteorology | 2 | 0 | 7 | 0 | 3 | 7 | 10 | 3 | 8 | 3 | 7.4 | 12.0 |
| Atmospheric science meteorology, general | 0 | 4 | 1 | 3 | 5 | 3 | 7 | 7 | 4 | 7 | 0 | 15.9 |
| Atmospheric science meteorology, other | 1 | 3 | 1 | 3 | 1 | 1 | 1 | 1 | 0 | 2 | 14.3 | 11.1 |
| Geosciences | 68 | 76 | 82 | 92 | 85 | 124 | 115 | 89 | 95 | 91 | 19.7 | 20.0 |
| Applied geology[4] | 1 | 1 | 1 | 0 | 3 | 0 | N/A | N/A | N/A | N/A | 25.0 | |
| Geology | 23 | 25 | 36 | 35 | 32 | 34 | 35 | 35 | 32 | 38 | 19.5 | 20.4 |
| Geochemistry | 7 | 9 | 7 | 13 | 9 | 19 | 16 | 13 | 10 | 10 | 18.9 | 23.8 |
| Geomorphology glacial geology | 2 | 2 | 3 | 3 | 1 | 2 | 5 | 3 | 2 | 4 | 18.2 | 36.4 |
| Geophysics seismology | 18 | 11 | 8 | 11 | 15 | 20 | 23 | 14 | 24 | 19 | 20.2 | 20.4 |
| Hydrology water resources | 1 | 5 | 5 | 2 | 1 | 2 | 7 | 9 | 3 | 4 | 6.3 | 16.7 |
| Mineralogy petrology | 4 | 8 | 3 | 5 | 4 | 15 | 6 | 1 | 6 | 4 | 23.5 | 21.1 |
| Paleontology | 7 | 5 | 3 | 4 | 2 | 7 | 2 | 5 | 2 | 3 | 43.8 | 15.0 |
| Stratigraphy sedimentation | 0 | 2 | 8 | 6 | 5 | 8 | 10 | 5 | 4 | 1 | 0 | 6.3 |
| Geological & related sciences, general | 1 | 3 | 2 | 2 | 5 | 9 | 4 | 2 | 1 | 4 | 8.3 | 19.0 |
| Geological & related sciences other | 4 | 5 | 6 | 11 | 8 | 8 | 7 | 2 | 11 | 4 | 33.3 | 18.2 |
| Oceanography | 11 | 16 | 26 | 26 | 31 | 26 | 29 | 35 | 38 | 28 | 11.0 | 24.6 |
| Marine sciences | 3 | 3 | 9 | 6 | 7 | 2 | 11 | 8 | 11 | 8 | 13.6 | 25.8 |
| Oceanography | 8 | 13 | 17 | 20 | 24 | 24 | 18 | 27 | 27 | 20 | 10.3 | 24.1 |
| Other environmental sciences | 8 | 6 | 16 | 20 | 11 | 13 | 17 | 18 | 24 | 28 | 22.9 | 35.0 |
| Mathematical computer sciences, total | 169 | 190 | 177 | 263 | 268 | 316 | 325 | 402 | 373 | 451 | 15.0 | 20.6 |
| Mathematics, total | 121 | 125 | 121 | 155 | 158 | 199 | 205 | 264 | 236 | 265 | 16.6 | 22.3 |
| Algebra | 18 | 10 | 10 | 10 | 6 | 16 | 13 | 28 | 24 | 24 | 39.1 | 29.3 |
| Analysis functional analysis | 11 | 6 | 15 | 20 | 15 | 21 | 18 | 23 | 16 | 18 | 13.6 | 18.2 |
| Applied mathematics | 20 | 29 | 17 | 28 | 34 | 27 | 44 | 43 | 39 | 47 | 14.8 | 22.3 |
| Computing theory | 0 | 4 | 3 | 1 | 1 | 3 | 0 | 3 | 2 | 2 | 0 | 14.3 |
| Geometry | 1 | 3 | 4 | 7 | 8 | 5 | 6 | 7 | 4 | 8 | 2.6 | 17.8 |
| Logic | 3 | 2 | 2 | 5 | 3 | 1 | 2 | 4 | 6 | 7 | 13.0 | 20.0 |
| Mathematical statistics[9] | 27 | 36 | 31 | 38 | 31 | 56 | 46 | 57 | 50 | 54 | 19.1 | 26.3 |
| Number theory | 1 | 2 | 5 | 5 | 1 | 8 | 4 | 4 | 5 | 9 | 5.0 | 25.7 |
| Operations research | 4 | 1 | 3 | 4 | 2 | 4 | 6 | 9 | 9 | 5 | 13.8 | 13.9 |
| Topology | 6 | 3 | 3 | 8 | 11 | 18 | 16 | 9 | 11 | 8 | 17.6 | 15.7 |
| Mathematics, general | 20 | 22 | 20 | 17 | 32 | 31 | 37 | 56 | 54 | 64 | 16.0 | 21.0 |
| Mathematics, other | 10 | 7 | 8 | 12 | 14 | 9 | 13 | 21 | 16 | 19 | 21.3 | 26.4 |
| Computer sciences, total | 48 | 65 | 56 | 108 | 110 | 117 | 120 | 138 | 137 | 186 | 12.0 | 18.6 |
| Computer science | 39 | 51 | 39 | 69 | 85 | 96 | 91 | 123 | 118 | 160 | 11.0 | 17.5 |
| Information science systems | 9 | 14 | 17 | 39 | 25 | 21 | 29 | 15 | 19 | 26 | 20.5 | 31.0 |

See explanatory information, if any, and SOURCE at end of table.



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## Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Percent women | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | 1986 | 1995 |
| Biological agricultural sciences total | 1,452 | 1,531 | 1,691 | 1,769 | 1,860 | 1,981 | 2,064 | 2,278 | 2,355 | 2,442 | 30.2 | 38.1 |
| Biological sciences, total | 1,280 | 1,360 | 1,505 | 1,542 | 1,614 | 1,772 | 1,831 | 2,050 | 2,106 | 2,214 | 33.6 | 41.2 |
| Bacteriology | 2 | 6 | 2 | 2 | 4 | 5 | 5 | 6 | 11 | 6 | 16.7 | 46.2 |
| Biochemistry | 194 | 199 | 203 | 268 | 237 | 289 | 284 | 318 | 320 | 342 | 33.7 | 41.5 |
| Biomedical sciences[10] | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 41 | | 44.1 |
| Biophysics | 13 | 22 | 21 | 21 | 23 | 26 | 33 | 21 | 33 | 45 | 18.1 | 29.2 |
| Biotechnology research[11] | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 4 | 2 | 2 | - | 50.0 |
| Plant genetics | 10 | 7 | 6 | 3 | 7 | 5 | 8 | 12 | 5 | 12 | 50.0 | 34.3 |
| Plant pathology | 5 | 10 | 9 | 8 | 12 | 13 | 10 | 15 | 11 | 10 | 17.9 | 31.3 |
| Plant physiology | 18 | 15 | 23 | 15 | 19 | 19 | 16 | 19 | 21 | 21 | 34.6 | 38.2 |
| Botany, other | 42 | 36 | 41 | 52 | 33 | 39 | 45 | 43 | 46 | 34 | 34.7 | 33.3 |
| Anatomy | 27 | 42 | 32 | 27 | 29 | 31 | 31 | 34 | 29 | 26 | 31.4 | 40.0 |
| Biometrics biostatistics | 10 | 14 | 15 | 20 | 18 | 29 | 24 | 21 | 33 | 23 | 33.3 | 34.3 |
| Cell biology | 44 | 55 | 55 | 57 | 69 | 63 | 80 | 116 | 102 | 117 | 33.8 | 49.6 |
| Developmental biology embryology[12] | 7 | 0 | 3 | 4 | 12 | 20 | 22 | 25 | 32 | 30 | 77.8 | 46.9 |
| Ecology | 40 | 38 | 47 | 36 | 52 | 60 | 65 | 67 | 70 | 64 | 21.9 | 31.5 |
| Endocrinology | 6 | 11 | 10 | 10 | 11 | 16 | 12 | 12 | 8 | 6 | 35.3 | 30.0 |
| Entomology | 22 | 25 | 26 | 23 | 26 | 35 | 35 | 28 | 28 | 27 | 12.9 | 22.3 |
| Biological immunology[13] | 51 | 53 | 91 | 61 | 72 | 76 | 83 | 73 | 74 | 82 | 34.9 | 42.9 |
| Microbiology | 118 | 103 | 120 | 124 | 116 | 150 | 157 | 183 | 177 | 188 | 36.2 | 44.1 |
| Molecular biology | 115 | 116 | 130 | 153 | 152 | 182 | 194 | 237 | 268 | 266 | 38.6 | 43.0 |
| Neuroscience | 39 | 48 | 60 | 63 | 76 | 88 | 92 | 110 | 129 | 119 | 32.5 | 39.0 |
| Nutritional sciences | 86 | 97 | 89 | 91 | 88 | 70 | 95 | 99 | 102 | 92 | 70.5 | 67.6 |
| Parasitology | 3 | 5 | 8 | 5 | 4 | 7 | 8 | 7 | 9 | 7 | 12.0 | 50.0 |
| Toxicology | 33 | 34 | 30 | 39 | 36 | 30 | 33 | 43 | 50 | 48 | 31.7 | 39.0 |
| Human/animal genetics | 41 | 54 | 57 | 57 | 73 | 71 | 61 | 76 | 87 | 92 | 45.1 | 45.5 |
| Human/animal pathology | 33 | 48 | 43 | 41 | 32 | 46 | 41 | 45 | 45 | 38 | 36.3 | 34.9 |
| Human/animal pharmacology | 81 | 86 | 92 | 99 | 91 | 90 | 92 | 121 | 104 | 127 | 33.1 | 46.4 |
| Human/animal physiology | 77 | 76 | 89 | 105 | 98 | 107 | 82 | 100 | 106 | 103 | 32.1 | 39.3 |
| Zoology, other | 44 | 44 | 43 | 35 | 37 | 39 | 45 | 32 | 32 | 50 | 28.4 | 34.5 |
| Biological sciences, general | 73 | 81 | 97 | 77 | 140 | 113 | 115 | 113 | 117 | 149 | 34.3 | 42.6 |
| Biological sciences, other | 46 | 35 | 63 | 46 | 47 | 53 | 63 | 70 | 55 | 47 | 36.8 | 37.3 |
| Agricultural sciences, total | 172 | 171 | 186 | 227 | 246 | 209 | 233 | 228 | 249 | 228 | 17.3 | 22.0 |
| Agronomy & crop science[14] | 15 | 17 | 19 | 20 | 21 | 11 | 23 | 19 | 17 | 13 | 9.4 | 11.4 |
| Animal breeding/genetics | 4 | 3 | 2 | 3 | 3 | 2 | 6 | 4 | 3 | 1 | 16.0 | 5.3 |
| Animal nutrition | 13 | 13 | 12 | 15 | 13 | 10 | 8 | 7 | 10 | 9 | 20.0 | 18.0 |
| Dairy science[15] | N/A | N/A | 1 | 1 | 2 | 4 | 2 | 2 | 1 | 3 | | 21.4 |
| Poultry science[15] | N/A | N/A | 2 | 2 | 3 | 1 | 6 | 6 | 5 | 0 | | 0 |
| Animal sciences, other | 16 | 16 | 13 | 25 | 11 | 20 | 21 | 19 | 25 | 19 | 17.6 | 22.4 |
| Fisheries science & management[16] | 9 | 0 | 8 | 5 | 6 | 4 | 1 | 4 | 11 | 9 | 29.0 | 18.4 |
| Wildlife range management[17] | 2 | 1 | 8 | 10 | 6 | 8 | 7 | 17 | 13 | 8 | 10.0 | 16.0 |
| Food science[18] | 40 | 48 | 3 | 0 | N/A | N/A | N/A | N/A | N/A | N/A | 33.1 | |
| Food engineering[18] | N/A | N/A | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 0 | | 0 |
| Food sciences, other[18] | N/A | N/A | 36 | 53 | 54 | 46 | 60 | 57 | 69 | 54 | - | 40.0 |
| Forestry science[19] | 17 | 5 | 2 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 19.3 | - |
| Forest biology[19] | N/A | N/A | 3 | 3 | 8 | 3 | 8 | 7 | 6 | 5 | - | 20.8 |
| Forest engineering[19] | N/A | N/A | 0 | 0 | 0 | 1 | 0 | 0 | N/A | 0 | - | 0 |
| Forest management[19] | N/A | N/A | 2 | 2 | 1 | 4 | 1 | 0 | 2 | 6 | - | 30.0 |
| Wood science & pulp paper technology[19] | N/A | N/A | 0 | 0 | 0 | 2 | 2 | 3 | 6 | 6 | - | 24.0 |
| Conservation/renewable natural resources[19] | N/A | N/A | 0 | 1 | 3 | 3 | 1 | 4 | 6 | 5 | - | 20.8 |
| Forestry & related sciences, other[18] | N/A | N/A | 6 | 8 | 10 | 5 | 9 | 9 | 6 | 13 | - | 18.1 |
| Horticulture science | 12 | 16 | 16 | 19 | 27 | 19 | 16 | 15 | 14 | 22 | 20.0 | 32.8 |
| Plant breeding/genetics | 13 | 11 | 12 | 13 | 20 | 10 | 12 | 14 | 13 | 15 | 16.7 | 20.8 |
| Plant pathology | 14 | 22 | 12 | 24 | 25 | 26 | 20 | 15 | 20 | 9 | 16.5 | 17.3 |
| Plant protection/pest management[20] | N/A | N/A | 0 | 0 | 1 | 0 | N/A | N/A | N/A | N/A | - | - |
| Plant sciences, other | 5 | 3 | 3 | 4 | 4 | 4 | 6 | 9 | 9 | 3 | 22.7 | 10.0 |
| Soil sciences[21] | 10 | 7 | 1 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 9.7 | - |
| Soil chemistry/ microbiology[21] | N/A | N/A | 7 | 7 | 6 | 6 | 3 | 5 | 4 | 5 | - | 18.5 |
| Soil sciences, other[21] | N/A | N/A | 11 | 7 | 8 | 11 | 12 | 4 | 6 | 18 | - | 25.0 |
| Agricultural sciences, general | 0 | 0 | 3 | 2 | 0 | 1 | 2 | 2 | 0 | 3 | 0 | 50.0 |
| Agricultural sciences, other | 2 | 9 | 3 | 2 | 12 | 6 | 5 | 4 | 1 | 2 | 4.4 | 28.6 |

See explanatory information, if any, and SOURCE at end of table.

## Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Percent women | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | 1986 | 1995 |
| Psychology, total | 1,599 | 1,698 | 1,681 | 1,800 | 1,913 | 1,996 | 1,928 | 2,088 | 2,102 | 2,172 | 51.2 | 63.5 |
| Clinical | 603 | 667 | 612 | 710 | 785 | 848 | 810 | 873 | 842 | 867 | 51.4 | 67.1 |
| Cognitive psychology & psycholinguistics[22] | 33 | 41 | 34 | 33 | 35 | 46 | 47 | 48 | 56 | 52 | 47.1 | 50.0 |
| Comparative | 6 | 6 | 4 | 1 | 3 | 5 | 2 | 3 | 7 | 1 | 42.9 | 25.0 |
| Counseling | 237 | 254 | 261 | 284 | 281 | 306 | 289 | 284 | 310 | 297 | 52.8 | 63.2 |
| Developmental & child[23] | 117 | 139 | 131 | 116 | 112 | 119 | 131 | 155 | 133 | 122 | 63.6 | 79.7 |
| Educational | 58 | 50 | 65 | 60 | 69 | 64 | 69 | 67 | 39 | 53 | 54.7 | 71.6 |
| Experimental | 64 | 54 | 61 | 70 | 49 | 64 | 73 | 68 | 71 | 83 | 43.5 | 55.0 |
| Family & marriage counseling[10] | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 35 | - | 68.6 |
| Industrial/organizational | 52 | 49 | 54 | 49 | 53 | 76 | 64 | 73 | 69 | 84 | 47.3 | 57.9 |
| Physiological psychobiology[24] | 30 | 32 | 45 | 33 | 28 | 21 | 25 | 50 | 52 | 35 | 41.1 | 37.6 |
| Quantitative | 8 | 7 | 5 | 6 | 3 | 2 | 5 | 11 | 8 | 9 | 34.8 | 69.2 |
| Personality | 9 | 11 | 8 | 17 | 10 | 4 | 8 | 12 | 12 | 9 | 56.3 | 56.3 |
| Psychometrics | 7 | 3 | 6 | 3 | 4 | 3 | 2 | 2 | 1 | 4 | 63.6 | 40.0 |
| School | 59 | 53 | 66 | 69 | 53 | 57 | 59 | 65 | 53 | 62 | 50.9 | 68.1 |
| Social | 79 | 72 | 75 | 68 | 92 | 86 | 78 | 67 | 100 | 84 | 56.0 | 54.2 |
| Psychology, general | 149 | 173 | 196 | 204 | 233 | 185 | 168 | 185 | 158 | 186 | 48.2 | 60.6 |
| Psychology, other | 88 | 87 | 58 | 77 | 103 | 110 | 98 | 125 | 191 | 189 | 47.8 | 65.2 |
| Social sciences, total | 1,117 | 1,011 | 1,125 | 1,135 | 1,111 | 1,313 | 1,299 | 1,422 | 1,443 | 1,466 | 33.6 | 37.8 |
| Economics | 181 | 163 | 198 | 198 | 200 | 217 | 219 | 246 | 249 | 278 | 17.8 | 24.1 |
| Agricultural economics | 16 | 24 | 31 | 25 | 27 | 38 | 28 | 31 | 20 | 42 | 10.0 | 24.3 |
| Econometrics | 2 | 4 | 4 | 2 | 3 | 5 | 2 | 7 | 4 | 4 | 8.0 | 15.4 |
| Economics | 163 | 135 | 163 | 171 | 170 | 174 | 189 | 208 | 225 | 232 | 19.5 | 24.3 |
| Political science | 196 | 175 | 164 | 201 | 170 | 211 | 235 | 246 | 282 | 266 | 29.7 | 29.8 |
| International relations & affairs[25] | 15 | 15 | 14 | 29 | 15 | 24 | 24 | 28 | 24 | 21 | 19.7 | 29.2 |
| Political science/government | 117 | 111 | 96 | 107 | 108 | 117 | 142 | 129 | 173 | 167 | 28.3 | 27.8 |
| Public administration | 30 | 19 | 29 | 37 | 22 | 32 | 30 | 41 | 47 | 43 | 34.1 | 33.3 |
| Public policy analysis[26] | 34 | 30 | 25 | 28 | 25 | 38 | 39 | 48 | 38 | 35 | 42.0 | 38.0 |
| Sociology | 221 | 175 | 249 | 232 | 218 | 246 | 250 | 255 | 283 | 294 | 43.7 | 53.1 |
| Demography/population studies[27] | 6 | 7 | 11 | 10 | 11 | 16 | 5 | 12 | 12 | 6 | 40.0 | 40.0 |
| Sociology | 215 | 168 | 238 | 222 | 207 | 230 | 245 | 243 | 271 | 288 | 43.8 | 53.4 |
| Other social sciences | 519 | 498 | 514 | 504 | 523 | 639 | 595 | 675 | 629 | 628 | 45.5 | 49.2 |
| American studies | 38 | 39 | 43 | 48 | 37 | 56 | 47 | 57 | 48 | 53 | 55.9 | 56.4 |
| Anthropology | 197 | 181 | 170 | 148 | 173 | 210 | 155 | 213 | 208 | 219 | 51.7 | 58.4 |
| Archaeology | 14 | 17 | 8 | 14 | 12 | 20 | 17 | 18 | 17 | 18 | 50.0 | 51.4 |
| Area studies | 6 | 5 | 5 | 5 | 9 | 5 | 11 | 11 | 17 | 12 | 21.4 | 44.4 |
| Criminology | 7 | 7 | 15 | 10 | 16 | 18 | 15 | 15 | 12 | 23 | 29.2 | 52.3 |
| Geography | 39 | 26 | 33 | 25 | 35 | 33 | 29 | 40 | 35 | 43 | 32.5 | 28.7 |
| History/philosophy of science & technology[28] | 10 | 10 | 10 | 9 | 9 | 11 | 8 | 16 | 10 | 18 | 41.7 | 43.9 |
| Linguistics | 96 | 106 | 83 | 106 | 90 | 112 | 133 | 118 | 134 | 102 | 50.8 | 50.7 |
| Statistics | 17 | 13 | 9 | 20 | 12 | 10 | 11 | 14 | 16 | 11 | 26.2 | 22.9 |
| Urban affairs & studies[29] | 16 | 22 | 31 | 23 | 21 | 22 | 31 | 44 | 43 | 37 | 32.0 | 35.9 |
| Social sciences, general | 13 | 3 | 13 | 9 | 9 | 17 | 20 | 13 | 9 | 23 | 36.1 | 65.7 |
| Social sciences, other | 66 | 66 | 94 | 87 | 100 | 125 | 118 | 116 | 80 | 69 | 52.0 | 55.6 |

See explanatory information, if any, and SOURCE at end of table

## Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | Percent women | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | 1986 | 1995 |
| Non-S&E, total[30] | 6,140 | 6,120 | 6,157 | 6,404 | 6,736 | 6,939 | 7,340 | 7,461 | 7,887 | 8,060 | 49.3 | 53.4 |
| Health | 480 | 475 | 549 | 629 | 592 | 668 | 710 | 777 | 843 | 844 | 62.3 | 63.4 |
| Humanities[31] | 1,406 | 1,399 | 1,431 | 1,436 | 1,600 | 1,720 | 1,858 | 1,919 | 2,054 | 2,254 | 44.6 | 48.1 |
| Education | 3,613 | 3,557 | 3,514 | 3,610 | 3,752 | 3,746 | 3,960 | 3,912 | 4,077 | 4,032 | 54.3 | 61.6 |
| Professional/other | 641 | 689 | 663 | 729 | 792 | 805 | 812 | 853 | 913 | 930 | 33.8 | 36.8 |
| Grand total, all fields | 11,307 | 11,432 | 11,819 | 12,513 | 13,105 | 13,870 | 14,420 | 15,113 | 15,806 | 16,333 | 35.4 | 39.3 |

1 In 1993 this subfield was changed from "Polymer engineering" to "Polymer and plastics engineering."

2 In 1993 this subfield was changed from "Industrial engineering" to "Industrial and manufacturing engineering."

3 In 1993 this subfield was changed from "Ceramic engineering" to "Ceramic sciences engineering."

4 This subfield was deleted in 1991.

5 In 1993 this subfield was changed from "Pharmaceutical chemistry" to "Medicinal and pharmaceutical chemistry."

6 In 1993 this subfield was changed from "Atomic/molecular physics" to "Chemical and atomic/molecular physics."

7 In 1993 this subfield was changed from "Plasma physics" to "Plasma and high-temperature physics."

8 In 1993 this subfield was changed from "Solid state physics" to "Solid state and low-temperature physics."

9 In 1993 this subfield was changed from "Math probability and statistics" to "Mathematical statistics."

10 This subfield was introduced in 1995.

11 "Biotechnology research" was introduced in 1993.

12 In 1990 this subfield was changed from "Embryology" to "Developmental biology and embryology."

13 In 1993 this subfield was changed from "Immunology" to "Biological immunology."

14 In 1993 this subfield was changed from "Agronomy" to "Agronomy and crop science."

15 This subfield was introduced in 1988.

16 In 1993 this subfield was changed from "Fisheries science" to "Fisheries science and management."

17 In 1988 this subfield was changed from "Wildlife management" to "Wildlife and range management."

18 In 1988 "Food sciences" was separated into "Food distribution," "Food engineering," and "Food sciences, other."

19 In 1988 "Forestry science" was separated into "Forest biology," "Forest engineering," "Forest management," "Wood science," "Renewable natural resources," and "Foresty and related sciences, other." In 1993 "Pulp and paper technology" was added to "Wood science," and "Conservation" was added to "Renewable natural resources." "Forest engineering" was deleted from the survey in 1994 and reintroduced in 1995.

20 "Plant protection-pest management" was introduced in 1988 and deleted in 1991.

21 In 1988 "Soil sciences" was separated into "Soil chemistry and microbiology" and "Soil sciences, other."

22 In 1993 this subfield was changed from "Cognitive psychology" to "Cognitive psychology and psycholinguistics."

23 In 1993 this subfield was changed from "Developmental psychology" to "Developmental and child psychology."

24 In 1993 this subfield was changed from "Physiological psychology" to "Physiological psychology and psychobiology."

25 In 1993 this subfield was changed from "International relations" to "International relations and affairs."

26 In 1993 this subfield was changed from "Public policy studies" to "Public policy analysis."

27 In 1993 this subfield was changed from "Demography" to "Demography and population studies."

28 In 1993 this subfield was changed from "History of science" to "History and philosophy of science and technology."

29 In 1993 this subfield was changed from "Urban studies" to "Urban affairs and studies."

30 Non-S&E doctorates include those whose field of specialization is unknown.

31 Categories differ from those published by other Federal sponsors and the National Research Council in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

**KEY:** . = Percent not available as data were not collected that year.
N/A = Not available (i.e., the subfield was not identified separately in the questionnaire for that year)

**SOURCE:** National Science Foundation/SRS, Survey of Earned Doctorates.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens and permanent residents | | | | | | | | | |
| Science and engineering, total | 14,016 | 14,055 | 14,499 | 14,591 | 15,363 | 15,909 | 15,940 | 16,570 | 18,184 | 18,961 |
| Engineering, total | 1,726 | 1,913 | 2,146 | 2,229 | 2,346 | 2,474 | 2,520 | 2,697 | 3,053 | 3,336 |
| Chemical | 298 | 350 | 408 | 444 | 392 | 399 | 378 | 377 | 380 | 381 |
| Civil | 192 | 203 | 233 | 247 | 241 | 213 | 215 | 227 | 292 | 309 |
| Electrical | 410 | 393 | 503 | 539 | 599 | 686 | 719 | 795 | 899 | 971 |
| Mechanical | 267 | 308 | 327 | 325 | 368 | 359 | 426 | 434 | 538 | 558 |
| Other engineering | 559 | 659 | 675 | 674 | 746 | 817 | 782 | 864 | 944 | 1,117 |
| Sciences, total | 12,290 | 12,142 | 12,353 | 12,362 | 13,017 | 13,435 | 13,420 | 13,873 | 15,131 | 15,625 |
| Physical sciences, total | 2,166 | 2,242 | 2,258 | 2,131 | 2,341 | 2,299 | 2,356 | 2,330 | 2,789 | 2,840 |
| Astronomy | 91 | 73 | 104 | 82 | 96 | 86 | 106 | 111 | 112 | 141 |
| Chemistry | 1,413 | 1,472 | 1,451 | 1,383 | 1,497 | 1,460 | 1,440 | 1,400 | 1,616 | 1,623 |
| Physics | 643 | 682 | 681 | 654 | 725 | 739 | 790 | 806 | 1,044 | 1,059 |
| Other physical sciences | 19 | 15 | 22 | 12 | 23 | 14 | 20 | 13 | 17 | 17 |
| Earth, atmospheric, and ocean sciences | 427 | 435 | 520 | 547 | 535 | 618 | 541 | 504 | 613 | 593 |
| Mathematics | 402 | 396 | 386 | 428 | 422 | 518 | 507 | 590 | 657 | 771 |
| Computer sciences | 249 | 275 | 326 | 396 | 403 | 451 | 489 | 509 | 543 | 617 |
| Biological sciences | 3,241 | 3,141 | 3,323 | 3,299 | 3,379 | 3,521 | 3,567 | 3,751 | 4,085 | 4,321 |
| Agricultural sciences | 626 | 632 | 610 | 651 | 687 | 620 | 573 | 506 | 616 | 598 |
| Psychology | 2,832 | 2,806 | 2,729 | 2,737 | 2,992 | 3,018 | 2,986 | 3,159 | 3,137 | 3,169 |
| Social sciences | 2,347 | 2,215 | 2,201 | 2,173 | 2,258 | 2,390 | 2,401 | 2,524 | 2,691 | 2,716 |
| Non-S&E, total | 10,503 | 10,507 | 10,414 | 10,435 | 11,240 | 11,509 | 12,016 | 12,105 | 12,693 | 12,949 |
| Health | 603 | 646 | 692 | 756 | 756 | 839 | 855 | 939 | 1,050 | 1,045 |
| Humanities[1] | 2,665 | 2,672 | 2,759 | 2,716 | 3,082 | 3,194 | 3,440 | 3,512 | 3,765 | 4,053 |
| Education | 5,802 | 5,665 | 5,477 | 5,410 | 5,788 | 5,781 | 5,985 | 5,940 | 6,050 | 5,895 |
| Professional/other | 1,433 | 1,524 | 1,486 | 1,553 | 1,614 | 1,695 | 1,736 | 1,714 | 1,828 | 1,956 |
| Grand total, all fields | 24,519 | 24,562 | 24,913 | 25,026 | 26,603 | 27,418 | 27,956 | 28,675 | 30,877 | 31,910 |
| | U.S. citizens and permanent residents, American Indian/Alaskan Native | | | | | | | | | |
| Science and engineering, total | 52 | 53 | 44 | 53 | 43 | 56 | 69 | 43 | 64 | 69 |
| Engineering, total | 6 | 7 | 4 | 7 | 4 | 6 | 11 | 2 | 6 | 10 |
| Chemical | 0 | 1 | 2 | 1 | 0 | 1 | 1 | 1 | 1 | 2 |
| Civil | 0 | 1 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 |
| Electrical | 2 | 3 | 0 | 0 | 0 | 2 | 4 | 0 | 1 | 2 |
| Mechanical | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| Other engineering | 2 | 1 | 0 | 5 | 2 | 1 | 4 | 1 | 4 | 4 |
| Sciences, total | 46 | 46 | 40 | 46 | 39 | 50 | 58 | 41 | 58 | 59 |
| Physical sciences, total | 5 | 7 | 6 | 10 | 3 | 10 | 12 | 5 | 6 | 9 |
| Astronomy | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 |
| Chemistry | 5 | 6 | 5 | 5 | 3 | 9 | 6 | 2 | 4 | 7 |
| Physics | 0 | 1 | 1 | 3 | 0 | 1 | 6 | 2 | 2 | 2 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 2 | 0 | 2 | 6 | 1 | 3 | 1 | 4 | 1 | 0 |
| Mathematics | 1 | 0 | 2 | 0 | 1 | 0 | 2 | 1 | 2 | 2 |
| Computer sciences | 0 | 3 | 1 | 2 | 0 | 1 | 2 | 1 | 1 | 0 |
| Biological sciences | 17 | 11 | 6 | 7 | 4 | 10 | 13 | 7 | 16 | 15 |
| Agricultural sciences | 0 | 2 | 6 | 2 | 4 | 4 | 0 | 1 | 1 | 2 |
| Psychology | 9 | 16 | 7 | 11 | 19 | 13 | 15 | 15 | 12 | 14 |
| Social sciences | 12 | 7 | 10 | 8 | 7 | 9 | 13 | 7 | 19 | 17 |
| Non-S&E, total | 47 | 62 | 50 | 41 | 54 | 76 | 80 | 77 | 78 | 79 |
| Health | 6 | 3 | 5 | 3 | 1 | 5 | 5 | 6 | 6 | 9 |
| Humanities[1] | 6 | 10 | 4 | 7 | 6 | 10 | 18 | 10 | 20 | 18 |
| Education | 26 | 41 | 36 | 25 | 37 | 56 | 50 | 51 | 36 | 40 |
| Professional/other | 9 | 8 | 5 | 6 | 10 | 5 | 7 | 10 | 16 | 12 |
| Grand total, all fields | 99 | 115 | 94 | 94 | 97 | 132 | 149 | 120 | 142 | 148 |

See explanatory information, if any, and SOURCE at end of table

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens and permanent residents, Asian | | | | | | | | | |
| Science and engineering, total | 816 | 925 | 916 | 986 | 1,009 | 1,180 | 1,344 | 1,610 | 2,989 | 3,666 |
| Engineering, total | 262 | 327 | 332 | 361 | 359 | 405 | 451 | 527 | 867 | 1,031 |
| Chemical | 58 | 60 | 67 | 77 | 51 | 50 | 54 | 62 | 96 | 101 |
| Civil | 26 | 34 | 27 | 36 | 28 | 30 | 34 | 41 | 69 | 91 |
| Electrical | 71 | 78 | 103 | 93 | 115 | 140 | 175 | 199 | 304 | 322 |
| Mechanical | 31 | 61 | 57 | 66 | 69 | 62 | 78 | 93 | 179 | 189 |
| Other engineering | 76 | 94 | 78 | 89 | 96 | 123 | 110 | 132 | 219 | 328 |
| Sciences, total | 554 | 598 | 584 | 625 | 650 | 775 | 893 | 1,083 | 2,122 | 2,635 |
| Physical sciences, total | 147 | 143 | 138 | 156 | 164 | 172 | 226 | 265 | 600 | 751 |
| Astronomy | 6 | 1 | 5 | 2 | 5 | 0 | 4 | 4 | 10 | 22 |
| Chemistry | 110 | 108 | 85 | 96 | 99 | 122 | 134 | 157 | 332 | 416 |
| Physics | 31 | 34 | 47 | 57 | 58 | 50 | 88 | 103 | 255 | 312 |
| Other physical sciences | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 1 | 3 | 1 |
| Earth, atmospheric, and ocean sciences | 14 | 18 | 14 | 23 | 15 | 17 | 27 | 22 | 89 | 104 |
| Mathematics | 28 | 41 | 33 | 24 | 27 | 57 | 52 | 79 | 142 | 208 |
| Computer sciences | 37 | 26 | 44 | 52 | 48 | 66 | 86 | 77 | 117 | 138 |
| Biological sciences | 168 | 170 | 171 | 201 | 200 | 261 | 269 | 370 | 720 | 924 |
| Agricultural sciences | 22 | 38 | 30 | 23 | 32 | 24 | 37 | 29 | 72 | 78 |
| Psychology | 42 | 48 | 47 | 55 | 53 | 59 | 59 | 73 | 109 | 121 |
| Social sciences | 96 | 114 | 107 | 91 | 111 | 119 | 137 | 168 | 273 | 311 |
| Non-S&E, total | 245 | 243 | 319 | 282 | 297 | 351 | 417 | 402 | 556 | 634 |
| Health | 30 | 35 | 30 | 22 | 39 | 44 | 52 | 45 | 94 | 94 |
| Humanities[1] | 42 | 53 | 64 | 79 | 62 | 81 | 99 | 108 | 151 | 193 |
| Education | 95 | 95 | 130 | 102 | 104 | 130 | 142 | 141 | 172 | 174 |
| Professional/other | 78 | 60 | 95 | 79 | 92 | 96 | 124 | 108 | 139 | 173 |
| Grand total, all fields | 1,061 | 1,168 | 1,235 | 1,268 | 1,306 | 1,531 | 1,761 | 2,012 | 3,545 | 4,300 |
| | U.S. citizens and permanent residents, black | | | | | | | | | |
| Science and engineering, total | 339 | 319 | 361 | 366 | 373 | 459 | 407 | 468 | 496 | 557 |
| Engineering, total | 24 | 25 | 31 | 33 | 40 | 55 | 49 | 50 | 54 | 71 |
| Chemical | 4 | 4 | 7 | 5 | 10 | 8 | 13 | 6 | 8 | 3 |
| Civil | 4 | 4 | 1 | 5 | 1 | 12 | 3 | 5 | 8 | 11 |
| Electrical | 4 | 3 | 7 | 9 | 8 | 16 | 17 | 15 | 17 | 24 |
| Mechanical | 3 | 3 | 1 | 5 | 5 | 3 | 5 | 3 | 7 | 14 |
| Other engineering | 9 | 11 | 15 | 9 | 16 | 16 | 11 | 21 | 14 | 19 |
| Sciences, total | 315 | 294 | 330 | 333 | 333 | 404 | 358 | 418 | 442 | 486 |
| Physical sciences, total | 27 | 20 | 34 | 31 | 30 | 31 | 25 | 41 | 46 | 43 |
| Astronomy | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 1 |
| Chemistry | 18 | 13 | 22 | 26 | 24 | 22 | 17 | 31 | 34 | 33 |
| Physics | 8 | 5 | 12 | 5 | 5 | 9 | 6 | 7 | 11 | 9 |
| Other physical sciences | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |
| Earth, atmospheric, and ocean sciences | 0 | 2 | 3 | 4 | 3 | 3 | 6 | 4 | 6 | 3 |
| Mathematics | 6 | 11 | 4 | 8 | 4 | 11 | 4 | 8 | 11 | 5 |
| Computer sciences | 1 | 2 | 2 | 1 | 1 | 8 | 5 | 6 | 10 | 11 |
| Biological sciences | 48 | 60 | 48 | 56 | 50 | 60 | 61 | 74 | 75 | 105 |
| Agricultural sciences | 16 | 13 | 20 | 14 | 15 | 17 | 14 | 16 | 22 | 17 |
| Psychology | 111 | 93 | 105 | 97 | 115 | 130 | 106 | 119 | 124 | 150 |
| Social sciences | 106 | 93 | 114 | 122 | 115 | 144 | 137 | 150 | 148 | 152 |
| Non-S&E, total | 617 | 591 | 609 | 596 | 676 | 701 | 706 | 809 | 778 | 898 |
| Health | 21 | 31 | 32 | 29 | 32 | 40 | 38 | 59 | 46 | 60 |
| Humanities[1] | 67 | 73 | 76 | 71 | 72 | 92 | 90 | 98 | 107 | 114 |
| Education | 464 | 417 | 417 | 432 | 496 | 471 | 499 | 555 | 519 | 610 |
| Professional/other | 65 | 70 | 84 | 64 | 76 | 98 | 79 | 97 | 106 | 114 |
| Grand total, all fields | 956 | 910 | 970 | 962 | 1,049 | 1,160 | 1,113 | 1,277 | 1,274 | 1,455 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens and permanent residents, Hispanic | | | | | | | | | |
| Science and engineering, total | 345 | 357 | 397 | 382 | 468 | 492 | 513 | 542 | 548 | 568 |
| Engineering, total | 35 | 34 | 63 | 47 | 54 | 60 | 71 | 66 | 66 | 77 |
| Chemical | 4 | 11 | 5 | 9 | 8 | 11 | 16 | 10 | 7 | 13 |
| Civil | 7 | 1 | 13 | 8 | 9 | 5 | 7 | 12 | 14 | 11 |
| Electrical | 9 | 6 | 14 | 14 | 13 | 15 | 17 | 17 | 21 | 15 |
| Mechanical | 6 | 5 | 7 | 3 | 5 | 9 | 11 | 5 | 8 | 8 |
| Other engineering | 9 | 11 | 24 | 13 | 19 | 20 | 20 | 22 | 16 | 30 |
| Sciences, total | 310 | 323 | 334 | 335 | 414 | 432 | 442 | 476 | 482 | 491 |
| Physical sciences, total | 41 | 56 | 63 | 59 | 72 | 65 | 72 | 79 | 90 | 73 |
| Astronomy | 2 | 0 | 2 | 2 | 2 | 1 | 4 | 2 | 2 | 4 |
| Chemistry | 25 | 44 | 48 | 43 | 57 | 46 | 42 | 51 | 59 | 43 |
| Physics | 13 | 12 | 13 | 14 | 13 | 18 | 26 | 26 | 29 | 26 |
| Other physical sciences | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 4 | 5 | 7 | 9 | 13 | 16 | 16 | 13 | 8 | 12 |
| Mathematics | 12 | 11 | 4 | 11 | 10 | 9 | 12 | 16 | 13 | 15 |
| Computer sciences | 7 | 4 | 2 | 4 | 5 | 12 | 8 | 7 | 7 | 6 |
| Biological sciences | 66 | 62 | 76 | 71 | 89 | 95 | 102 | 114 | 131 | 126 |
| Agricultural sciences | 17 | 15 | 21 | 18 | 23 | 15 | 18 | 20 | 25 | 21 |
| Psychology | 90 | 95 | 93 | 93 | 109 | 122 | 133 | 131 | 133 | 145 |
| Social sciences | 73 | 75 | 68 | 70 | 93 | 98 | 81 | 96 | 75 | 93 |
| Non-S&E, total | 334 | 351 | 296 | 312 | 369 | 375 | 396 | 431 | 481 | 487 |
| Health | 12 | 11 | 13 | 11 | 17 | 16 | 13 | 24 | 25 | 30 |
| Humanities[1] | 91 | 114 | 102 | 100 | 127 | 136 | 129 | 145 | 167 | 153 |
| Education | 204 | 201 | 158 | 171 | 190 | 189 | 214 | 222 | 241 | 255 |
| Professional/other | 27 | 25 | 23 | 30 | 35 | 34 | 40 | 40 | 48 | 49 |
| Grand total, all fields | 679 | 708 | 693 | 694 | 837 | 867 | 909 | 973 | 1,029 | 1,055 |
| | U.S. citizens and permanent residents, Puerto Rican | | | | | | | | | |
| Science and engineering, total | 74 | 86 | 96 | 93 | 115 | 99 | 120 | 112 | 131 | 137 |
| Engineering, total | 11 | 4 | 13 | 7 | 6 | 9 | 13 | 10 | 10 | 13 |
| Chemical | 2 | 1 | 0 | 1 | 2 | 2 | 3 | 2 | 2 | 4 |
| Civil | 1 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Electrical | 4 | 2 | 2 | 1 | 2 | 0 | 3 | 5 | 3 | 3 |
| Mechanical | 0 | 0 | 1 | 3 | 0 | 2 | 1 | 1 | 1 | 1 |
| Other engineering | 4 | 1 | 4 | 1 | 1 | 4 | 5 | 1 | 3 | 4 |
| Sciences, total | 63 | 82 | 83 | 86 | 109 | 90 | 107 | 102 | 121 | 124 |
| Physical sciences, total | 9 | 26 | 23 | 20 | 24 | 17 | 20 | 17 | 26 | 21 |
| Astronomy | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 |
| Chemistry | 5 | 26 | 19 | 16 | 20 | 14 | 14 | 14 | 19 | 17 |
| Physics | 4 | 0 | 4 | 3 | 3 | 3 | 5 | 3 | 7 | 3 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 1 | 0 | 0 | 0 | 5 | 0 | 3 | 1 | 0 | 2 |
| Mathematics | 3 | 6 | 1 | 4 | 2 | 0 | 2 | 1 | 1 | 1 |
| Computer sciences | 2 | 1 | 0 | 0 | 2 | 3 | 1 | 1 | 4 | 0 |
| Biological sciences | 12 | 18 | 20 | 18 | 24 | 23 | 27 | 27 | 28 | 30 |
| Agricultural sciences | 4 | 6 | 2 | 7 | 5 | 0 | 3 | 10 | 5 | 3 |
| Psychology | 17 | 15 | 26 | 21 | 26 | 20 | 35 | 24 | 43 | 44 |
| Social sciences | 15 | 10 | 11 | 16 | 21 | 27 | 16 | 21 | 14 | 23 |
| Non-S&E, total | 64 | 93 | 78 | 83 | 95 | 92 | 109 | 120 | 126 | 132 |
| Health | 4 | 3 | 4 | 4 | 6 | 3 | 4 | 3 | 6 | 12 |
| Humanities[1] | 11 | 29 | 23 | 22 | 28 | 30 | 22 | 36 | 38 | 30 |
| Education | 45 | 52 | 44 | 52 | 56 | 52 | 76 | 70 | 68 | 69 |
| Professional/other | 4 | 9 | 7 | 5 | 5 | 7 | 7 | 11 | 14 | 21 |
| Grand total, all fields | 138 | 179 | 174 | 176 | 210 | 191 | 229 | 232 | 257 | 269 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens and permanent residents, Mexican American | | | | | | | | | |
| Science and engineering, total | 81 | 79 | 94 | 95 | 104 | 126 | 120 | 122 | 145 | 150 |
| Engineering, total | 5 | 8 | 11 | 14 | 13 | 14 | 10 | 12 | 15 | 19 |
| Chemical | 1 | 1 | 0 | 4 | 2 | 4 | 1 | 1 | 1 | 3 |
| Civil | 1 | 1 | 0 | 1 | 2 | 2 | 2 | 0 | 2 | 7 |
| Electrical | 1 | 1 | 2 | 3 | 4 | 3 | 3 | 2 | 4 | 3 |
| Mechanical | 2 | 1 | 1 | 0 | 3 | 3 | 2 | 0 | 2 | 2 |
| Other engineering | 0 | 4 | 8 | 6 | 2 | 2 | 2 | 9 | 6 | 4 |
| Sciences, total | 76 | 71 | 83 | 81 | 91 | 112 | 110 | 110 | 130 | 131 |
| Physical sciences, total | 12 | 9 | 12 | 11 | 11 | 15 | 9 | 12 | 24 | 13 |
| Astronomy | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Chemistry | 10 | 4 | 10 | 10 | 11 | 12 | 6 | 8 | 19 | 8 |
| Physics | 2 | 5 | 1 | 1 | 0 | 3 | 3 | 4 | 4 | 4 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 0 | 2 | 4 | 2 | 3 | 4 | 7 | 2 | 4 | 4 |
| Mathematics | 3 | 0 | 0 | 2 | 3 | 3 | 4 | 4 | 4 | 6 |
| Computer sciences | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 1 | 2 | 3 |
| Biological sciences | 9 | 10 | 14 | 12 | 22 | 26 | 24 | 24 | 30 | 28 |
| Agricultural sciences | 4 | 3 | 3 | 3 | 8 | 5 | 5 | 4 | 6 | 4 |
| Psychology | 29 | 27 | 28 | 31 | 25 | 35 | 37 | 42 | 40 | 48 |
| Social sciences | 19 | 19 | 22 | 17 | 19 | 24 | 21 | 21 | 20 | 25 |
| Non-S&E, total | 114 | 100 | 96 | 83 | 86 | 106 | 99 | 130 | 163 | 139 |
| Health | 3 | 3 | 3 | 5 | 7 | 3 | 5 | 8 | 5 | 8 |
| Humanities[1] | 23 | 17 | 21 | 22 | 19 | 27 | 24 | 35 | 42 | 34 |
| Education | 81 | 73 | 63 | 50 | 50 | 67 | 58 | 74 | 102 | 92 |
| Professional/other | 7 | 7 | 9 | 6 | 10 | 9 | 12 | 13 | 14 | 5 |
| Grand total, all fields | 195 | 179 | 190 | 178 | 190 | 232 | 219 | 252 | 308 | 289 |
| | U.S. citizens and permanent residents, other Hispanic | | | | | | | | | |
| Science and engineering, total | 190 | 192 | 207 | 194 | 249 | 267 | 273 | 308 | 272 | 281 |
| Engineering, total | 19 | 22 | 39 | 26 | 35 | 37 | 48 | 44 | 41 | 45 |
| Chemical | 1 | 9 | 5 | 4 | 4 | 5 | 12 | 7 | 4 | 6 |
| Civil | 5 | 0 | 7 | 6 | 6 | 2 | 4 | 11 | 11 | 3 |
| Electrical | 4 | 3 | 10 | 10 | 7 | 12 | 11 | 10 | 14 | 9 |
| Mechanical | 4 | 4 | 5 | 0 | 2 | 4 | 8 | 4 | 5 | 5 |
| Other engineering | 5 | 6 | 12 | 6 | 16 | 14 | 13 | 12 | 7 | 22 |
| Sciences, total | 171 | 170 | 168 | 168 | 214 | 230 | 225 | 264 | 231 | 236 |
| Physical sciences, total | 20 | 21 | 28 | 28 | 37 | 33 | 43 | 50 | 40 | 39 |
| Astronomy | 2 | 0 | 1 | 1 | 1 | 1 | 3 | 2 | 1 | 2 |
| Chemistry | 10 | 14 | 19 | 17 | 26 | 20 | 22 | 29 | 21 | 18 |
| Physics | 7 | 7 | 8 | 10 | 10 | 12 | 18 | 19 | 18 | 19 |
| Other physical sciences | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 3 | 3 | 3 | 7 | 5 | 12 | 6 | 10 | 4 | 6 |
| Mathematics | 6 | 5 | 3 | 5 | 5 | 6 | 6 | 11 | 8 | 8 |
| Computer sciences | 5 | 2 | 2 | 4 | 3 | 9 | 4 | 5 | 1 | 3 |
| Biological sciences | 45 | 34 | 42 | 41 | 43 | 46 | 51 | 63 | 73 | 68 |
| Agricultural sciences | 9 | 6 | 16 | 5 | 10 | 10 | 10 | 6 | 14 | 14 |
| Psychology | 44 | 53 | 39 | 41 | 58 | 67 | 61 | 65 | 50 | 53 |
| Social sciences | 39 | 46 | 35 | 37 | 53 | 47 | 44 | 54 | 41 | 45 |
| Non-S&E, total | 156 | 158 | 122 | 146 | 188 | 177 | 188 | 181 | 192 | 216 |
| Health | 5 | 5 | 6 | 2 | 4 | 10 | 4 | 13 | 14 | 10 |
| Humanities[1] | 57 | 68 | 58 | 56 | 80 | 79 | 83 | 74 | 87 | 89 |
| Education | 78 | 76 | 51 | 69 | 84 | 70 | 80 | 78 | 71 | 94 |
| Professional/other | 16 | 9 | 7 | 19 | 20 | 18 | 21 | 16 | 20 | 23 |
| Grand total, all fields | 346 | 350 | 329 | 340 | 437 | 444 | 461 | 489 | 464 | 497 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens and permanent residents, white | | | | | | | | | |
| Science and engineering, total | 12,151 | 12,052 | 12,456 | 12,501 | 13,170 | 13,323 | 13,326 | 13,735 | 13,890 | 13,879 |
| Engineering, total | 1,354 | 1,458 | 1,655 | 1,726 | 1,840 | 1,837 | 1,880 | 2,025 | 2,020 | 2,086 |
| Chemical | 227 | 266 | 317 | 345 | 318 | 322 | 284 | 295 | 259 | 256 |
| Civil | 152 | 158 | 183 | 191 | 196 | 159 | 166 | 168 | 199 | 194 |
| Electrical | 319 | 283 | 363 | 405 | 450 | 478 | 487 | 553 | 548 | 588 |
| Mechanical | 210 | 230 | 253 | 241 | 286 | 266 | 326 | 328 | 337 | 334 |
| Other engineering | 446 | 521 | 539 | 544 | 590 | 612 | 617 | 681 | 677 | 714 |
| Sciences, total | 10,797 | 10,594 | 10,801 | 10,775 | 11,330 | 11,486 | 11,446 | 11,710 | 11,870 | 11,793 |
| Physical sciences, total | 1,875 | 1,956 | 1,948 | 1,828 | 2,008 | 1,968 | 1,973 | 1,911 | 2,025 | 1,921 |
| Astronomy | 79 | 69 | 93 | 74 | 86 | 83 | 95 | 100 | 97 | 111 |
| Chemistry | 1,209 | 1,267 | 1,258 | 1,188 | 1,284 | 1,239 | 1,219 | 1,145 | 1,179 | 1,110 |
| Physics | 571 | 606 | 577 | 555 | 618 | 633 | 641 | 656 | 736 | 686 |
| Other physical sciences | 16 | 14 | 20 | 11 | 20 | 13 | 18 | 10 | 13 | 14 |
| Earth, atmospheric, and ocean sciences | 397 | 394 | 480 | 498 | 494 | 557 | 485 | 455 | 504 | 464 |
| Mathematics | 343 | 319 | 332 | 369 | 372 | 419 | 425 | 476 | 479 | 535 |
| Computer sciences | 194 | 229 | 265 | 319 | 339 | 355 | 378 | 410 | 401 | 453 |
| Biological sciences | 2,888 | 2,759 | 2,966 | 2,904 | 2,975 | 3,041 | 3,068 | 3,146 | 3,108 | 3,116 |
| Agricultural sciences | 557 | 554 | 518 | 570 | 601 | 545 | 493 | 438 | 487 | 473 |
| Psychology | 2,548 | 2,516 | 2,445 | 2,453 | 2,648 | 2,652 | 2,636 | 2,805 | 2,731 | 2,715 |
| Social sciences | 1,995 | 1,867 | 1,847 | 1,834 | 1,893 | 1,949 | 1,988 | 2,069 | 2,135 | 2,116 |
| Non-S&E, total | 9,085 | 9,070 | 9,005 | 9,069 | 9,709 | 9,856 | 10,273 | 10,292 | 10,695 | 10,729 |
| Health | 524 | 553 | 606 | 684 | 662 | 720 | 735 | 800 | 867 | 835 |
| Humanities[1] | 2,401 | 2,363 | 2,471 | 2,399 | 2,766 | 2,821 | 3,061 | 3,109 | 3,282 | 3,520 |
| Education | 4,923 | 4,820 | 4,668 | 4,631 | 4,901 | 4,883 | 5,025 | 4,942 | 5,035 | 4,779 |
| Professional/other | 1,237 | 1,334 | 1,260 | 1,352 | 1,380 | 1,432 | 1,452 | 1,441 | 1,511 | 1,595 |
| Grand total, all fields | 21,236 | 21,122 | 21,461 | 21,570 | 22,879 | 23,179 | 23,599 | 24,027 | 24,585 | 24,608 |
| | U.S. citizens and permanent residents, male | | | | | | | | | |
| Science and engineering, total | 9,649 | 9,631 | 9,888 | 9,670 | 10,182 | 10,313 | 10,363 | 10,546 | 11,691 | 12,069 |
| Engineering, total | 1,564 | 1,739 | 1,950 | 1,954 | 2,070 | 2,158 | 2,192 | 2,349 | 2,605 | 2,818 |
| Chemical | 256 | 298 | 355 | 375 | 330 | 339 | 296 | 313 | 302 | 293 |
| Civil | 177 | 192 | 218 | 207 | 207 | 188 | 192 | 195 | 237 | 257 |
| Electrical | 385 | 378 | 470 | 503 | 552 | 638 | 652 | 715 | 811 | 851 |
| Mechanical | 254 | 297 | 310 | 306 | 344 | 322 | 401 | 398 | 484 | 510 |
| Other engineering | 492 | 574 | 597 | 563 | 637 | 671 | 651 | 728 | 771 | 907 |
| Sciences, total | 8,085 | 7,892 | 7,938 | 7,716 | 8,112 | 8,155 | 8,171 | 8,197 | 9,086 | 9,251 |
| Physical sciences, total | 1,790 | 1,843 | 1,848 | 1,694 | 1,871 | 1,845 | 1,842 | 1,809 | 2,164 | 2,132 |
| Astronomy | 84 | 64 | 90 | 69 | 78 | 79 | 91 | 88 | 91 | 116 |
| Chemistry | 1,104 | 1,145 | 1,123 | 1,018 | 1,114 | 1,092 | 1,039 | 999 | 1,152 | 1,086 |
| Physics | 588 | 620 | 621 | 596 | 663 | 663 | 696 | 712 | 907 | 916 |
| Other physical sciences | 14 | 14 | 14 | 11 | 16 | 11 | 16 | 10 | 14 | 14 |
| Earth, atmospheric, and ocean sciences | 351 | 346 | 408 | 427 | 417 | 461 | 394 | 384 | 469 | 449 |
| Mathematics | 329 | 319 | 316 | 327 | 329 | 406 | 390 | 426 | 506 | 588 |
| Computer sciences | 206 | 221 | 280 | 312 | 313 | 357 | 406 | 400 | 449 | 474 |
| Biological sciences | 2,125 | 1,997 | 2,071 | 2,023 | 2,068 | 2,132 | 2,129 | 2,167 | 2,344 | 2,467 |
| Agricultural sciences | 503 | 506 | 482 | 487 | 528 | 483 | 423 | 372 | 456 | 463 |
| Psychology | 1,362 | 1,277 | 1,217 | 1,174 | 1,220 | 1,128 | 1,206 | 1,221 | 1,169 | 1,125 |
| Social sciences | 1,419 | 1,383 | 1,316 | 1,272 | 1,366 | 1,343 | 1,381 | 1,418 | 1,529 | 1,553 |
| Non-S&E, total | 5,057 | 5,060 | 5,001 | 4,864 | 5,174 | 5,290 | 5,430 | 5,418 | 5,677 | 5,746 |
| Health | 179 | 231 | 216 | 225 | 239 | 252 | 226 | 260 | 328 | 325 |
| Humanities[1] | 1,466 | 1,451 | 1,515 | 1,473 | 1,660 | 1,703 | 1,832 | 1,815 | 1,977 | 2,075 |
| Education | 2,526 | 2,453 | 2,337 | 2,221 | 2,359 | 2,342 | 2,330 | 2,359 | 2,306 | 2,201 |
| Professional/other | 886 | 925 | 933 | 945 | 916 | 993 | 1,042 | 984 | 1,066 | 1,145 |
| Grand total, all fields | 14,706 | 14,691 | 14,889 | 14,534 | 15,356 | 15,603 | 15,793 | 15,964 | 17,368 | 17,815 |

See explanatory information, if any, and SOURCE at end of table

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens and permanent residents, male, American Indian/Alaskan Native | | | | | | | | | |
| Science and engineering, total | 33 | 32 | 29 | 33 | 25 | 37 | 42 | 25 | 40 | 44 |
| Engineering, total | 5 | 7 | 4 | 5 | 4 | 4 | 8 | 2 | 4 | 10 |
| Chemical | 0 | 1 | 2 | 1 | 0 | 0 | 1 | 1 | 1 | 2 |
| Civil | 0 | 1 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 0 |
| Electrical | 2 | 3 | 0 | 0 | 0 | 1 | 3 | 0 | 1 | 2 |
| Mechanical | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| Other engineering | 1 | 1 | 0 | 4 | 2 | 1 | 3 | 1 | 2 | 4 |
| Sciences, total | 28 | 25 | 25 | 28 | 21 | 33 | 34 | 23 | 36 | 34 |
| Physical sciences, total | 3 | 5 | 5 | 10 | 3 | 8 | 10 | 3 | 5 | 6 |
| Astronomy | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 |
| Chemistry | 3 | 4 | 5 | 5 | 3 | 7 | 4 | 1 | 4 | 4 |
| Physics | 0 | 1 | 0 | 3 | 0 | 1 | 6 | 1 | 1 | 2 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 1 | 0 | 1 | 4 | 0 | 2 | 1 | 4 | 1 | 0 |
| Mathematics | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 1 | 2 | 1 |
| Computer sciences | 0 | 2 | 1 | 1 | 0 | 1 | 2 | 0 | 0 | 0 |
| Biological sciences | 11 | 7 | 4 | 4 | 3 | 6 | 8 | 5 | 11 | 10 |
| Agricultural sciences | 0 | 2 | 4 | 1 | 4 | 4 | 0 | 1 | 1 | 2 |
| Psychology | 4 | 4 | 3 | 3 | 6 | 5 | 6 | 6 | 5 | 6 |
| Social sciences | 9 | 5 | 5 | 5 | 4 | 7 | 6 | 3 | 11 | 9 |
| Non-S&E, total | 25 | 30 | 23 | 16 | 27 | 37 | 40 | 35 | 31 | 37 |
| Health | 0 | 1 | 1 | 0 | 1 | 3 | 3 | 0 | 1 | 2 |
| Humanities[1] | 5 | 6 | 0 | 2 | 4 | 3 | 12 | 7 | 12 | 10 |
| Education | 16 | 18 | 18 | 10 | 16 | 29 | 20 | 21 | 10 | 16 |
| Professional/other | 4 | 5 | 4 | 4 | 6 | 2 | 5 | 7 | 8 | 9 |
| Grand total, all fields | 58 | 62 | 52 | 49 | 52 | 74 | 82 | 60 | 71 | 81 |
| | U.S. citizens and permanent residents, male, Asian | | | | | | | | | |
| Science and engineering, total | 621 | 694 | 694 | [illegible] | 757 | 806 | 926 | 1,079 | 2,169 | 2,557 |
| Engineering, total | 247 | 305 | 314 | 327 | 326 | 356 | 390 | 466 | 748 | 863 |
| Chemical | 52 | 54 | 61 | 66 | 40 | 41 | 38 | 55 | 71 | 76 |
| Civil | 26 | 32 | 26 | 33 | 25 | 26 | 32 | 39 | 65 | 77 |
| Electrical | 67 | 75 | 97 | 85 | 109 | 135 | 154 | 174 | 273 | 276 |
| Mechanical | 31 | 61 | 57 | 65 | 66 | 59 | 74 | 90 | 155 | 167 |
| Other engineering | 71 | 83 | 73 | 78 | 86 | 95 | 92 | 108 | 184 | 267 |
| Sciences, total | 374 | 389 | 380 | 418 | 431 | 450 | 536 | 613 | 1,421 | 1,694 |
| Physical sciences, total | 106 | 107 | 96 | 120 | 122 | 124 | 146 | 168 | 422 | 540 |
| Astronomy | 4 | 1 | 4 | 0 | 3 | 0 | 2 | 2 | 9 | 18 |
| Chemistry | 75 | 77 | 57 | 73 | 70 | 86 | 78 | 85 | 203 | 270 |
| Physics | 27 | 29 | 34 | 46 | 47 | 38 | 66 | 80 | 208 | 251 |
| Other physical sciences | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 1 | 2 | 1 |
| Earth, atmospheric, and ocean sciences | 13 | 15 | 10 | 19 | 14 | 11 | 19 | 14 | 72 | 76 |
| Mathematics | 23 | 30 | 22 | 21 | 20 | 39 | 33 | 43 | 116 | 158 |
| Computer sciences | 34 | 20 | 38 | 42 | 41 | 51 | 74 | 58 | 101 | 108 |
| Biological sciences | 101 | 93 | 98 | 112 | 113 | 132 | 136 | 198 | 451 | 515 |
| Agricultural sciences | 18 | 31 | 23 | 17 | 26 | 16 | 25 | 20 | 52 | 62 |
| Psychology | 18 | 17 | 20 | 28 | 22 | 15 | 20 | 22 | 32 | 44 |
| Social sciences | 61 | 76 | 73 | 59 | 73 | 62 | 83 | 90 | 175 | 191 |
| Non-S&E, total | 145 | 130 | 176 | 160 | 152 | 166 | 208 | 203 | 300 | 311 |
| Health | 18 | 18 | 18 | 13 | 17 | 21 | 22 | 22 | 48 | 52 |
| Humanities[1] | 16 | 22 | 31 | 42 | 28 | 39 | 48 | 42 | 84 | 83 |
| Education | 45 | 46 | 59 | 43 | 39 | 45 | 47 | 55 | 66 | 59 |
| Professional/other | 66 | 44 | 68 | 62 | 68 | 61 | 91 | 84 | 102 | 117 |
| Grand total, all fields | 766 | 824 | 870 | 905 | 909 | 972 | 1,134 | 1,282 | 2,469 | 2,868 |

See explanatory information, if any, and SOURCE at end of table.

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## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens and permanent residents, male, black | | | | | | | | | |
| Science and engineering, total | 187 | 189 | 224 | 213 | 225 | 266 | 237 | 260 | 282 | 289 |
| Engineering, total | 20 | 24 | 27 | 30 | 34 | 47 | 43 | 39 | 41 | 56 |
| Chemical | 3 | 4 | 6 | 4 | 8 | 7 | 12 | 3 | 4 | 2 |
| Civil | 3 | 4 | 1 | 5 | 1 | 10 | 3 | 3 | 6 | 8 |
| Electrical | 4 | 3 | 5 | 9 | 7 | 14 | 15 | 13 | 14 | 20 |
| Mechanical | 2 | 3 | 1 | 5 | 5 | 2 | 5 | 3 | 6 | 13 |
| Other engineering | 8 | 10 | 14 | 7 | 13 | 14 | 8 | 17 | 11 | 13 |
| Sciences, total | 167 | 165 | 197 | 183 | 191 | 219 | 194 | 221 | 241 | 233 |
| Physical sciences, total | 23 | 17 | 26 | 24 | 23 | 26 | 19 | 31 | 33 | 25 |
| Astronomy | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 1 |
| Chemistry | 15 | 11 | 15 | 19 | 17 | 17 | 12 | 22 | 25 | 16 |
| Physics | 7 | 4 | 11 | 5 | 5 | 9 | 6 | 7 | 7 | 8 |
| Other physical sciences | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| Earth, atmospheric, and ocean sciences | 0 | 1 | 3 | 3 | 1 | 2 | 5 | 4 | 5 | 3 |
| Mathematics | 3 | 9 | 4 | 5 | 3 | 7 | 4 | 7 | 8 | 4 |
| Computer sciences | 1 | 1 | 2 | 0 | 1 | 4 | 4 | 2 | 8 | 7 |
| Biological sciences | 26 | 35 | 25 | 32 | 29 | 29 | 37 | 42 | 32 | 64 |
| Agricultural sciences | 13 | 10 | 15 | 13 | 14 | 16 | 10 | 12 | 16 | 11 |
| Psychology | 43 | 34 | 47 | 36 | 43 | 44 | 28 | 44 | 46 | 38 |
| Social sciences | 58 | 58 | 75 | 70 | 77 | 91 | 87 | 79 | 93 | 81 |
| Non-S&E, total | 244 | 247 | 219 | 239 | 254 | 282 | 280 | 317 | 270 | 319 |
| Health | 6 | 12 | 8 | 9 | 14 | 17 | 14 | 18 | 11 | 18 |
| Humanities[1] | 32 | 34 | 40 | 35 | 37 | 44 | 47 | 56 | 52 | 53 |
| Education | 174 | 162 | 140 | 162 | 169 | 179 | 173 | 200 | 161 | 198 |
| Professional other | 32 | 39 | 31 | 33 | 34 | 42 | 46 | 43 | 46 | 50 |
| Grand total, all fields | 431 | 436 | 443 | 452 | 479 | 548 | 517 | 577 | 552 | 608 |
| | U.S. citizens and permanent residents, male, Hispanic | | | | | | | | | |
| Science and engineering, total | 227 | 216 | 248 | 227 | 290 | 306 | 308 | 320 | 318 | 336 |
| Engineering, total | 32 | 29 | 57 | 39 | 45 | 50 | 56 | 54 | 60 | 66 |
| Chemical | 2 | 8 | 5 | 5 | 7 | 7 | 12 | 7 | 7 | 11 |
| Civil | 7 | 1 | 12 | 8 | 7 | 3 | 6 | 10 | 11 | 10 |
| Electrical | 8 | 6 | 12 | 13 | 12 | 15 | 14 | 14 | 21 | 14 |
| Mechanical | 6 | 5 | 6 | 2 | 4 | 7 | 9 | 5 | 7 | 8 |
| Other engineering | 9 | 9 | 22 | 11 | 15 | 18 | 15 | 18 | 14 | 23 |
| Sciences, total | 195 | 187 | 191 | 188 | 245 | 256 | 252 | 266 | 258 | 270 |
| Physical sciences, total | 32 | 39 | 47 | 41 | 46 | 54 | 52 | 59 | 69 | 52 |
| Astronomy | 1 | 0 | 2 | 2 | 2 | 1 | 3 | 2 | 2 | 2 |
| Chemistry | 19 | 29 | 35 | 26 | 33 | 37 | 26 | 33 | 43 | 29 |
| Physics | 11 | 10 | 10 | 13 | 11 | 16 | 23 | 24 | 24 | 21 |
| Other physical sciences | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 3 | 4 | 3 | 6 | 9 | 14 | 10 | 11 | 6 | 6 |
| Mathematics | 9 | 9 | 4 | 7 | 6 | 5 | 9 | 14 | 10 | 11 |
| Computer sciences | 7 | 4 | 2 | 1 | 4 | 11 | 7 | 6 | 7 | 2 |
| Biological sciences | 39 | 38 | 49 | 50 | 56 | 56 | 59 | 57 | 69 | 79 |
| Agricultural sciences | 11 | 11 | 19 | 15 | 17 | 12 | 14 | 15 | 13 | 16 |
| Psychology | 47 | 32 | 38 | 30 | 52 | 52 | 55 | 45 | 43 | 48 |
| Social sciences | 47 | 50 | 29 | 38 | 55 | 52 | 46 | 59 | 41 | 56 |
| Non-S&E, total | 146 | 166 | 137 | 149 | 159 | 152 | 174 | 197 | 199 | 200 |
| Health | 5 | 3 | 7 | 4 | 2 | 7 | 4 | 8 | 7 | 15 |
| Humanities[1] | 45 | 62 | 47 | 51 | 52 | 64 | 66 | 72 | 78 | 71 |
| Education | 76 | 86 | 66 | 73 | 85 | 65 | 82 | 94 | 82 | 91 |
| Professional other | 20 | 15 | 17 | 21 | 20 | 16 | 22 | 23 | 32 | 23 |
| Grand total, all fields | 373 | 382 | 385 | 376 | 449 | 458 | 482 | 517 | 517 | 536 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens and permanent residents, male, Puerto Rican | | | | | | | | | |
| Science and engineering, total | 49 | 53 | 58 | 54 | 67 | 52 | 71 | 70 | 72 | 74 |
| Engineering, total | 9 | 3 | 11 | 6 | 4 | 7 | 10 | 8 | 10 | 11 |
| Chemical | 0 | 1 | 0 | 1 | 2 | 1 | 3 | 2 | 2 | 3 |
| Civil | 1 | 0 | 5 | 1 | 1 | 1 | 1 | 0 | 1 | 1 |
| Electrical | 4 | 2 | 2 | 1 | 1 | 0 | 2 | 4 | 3 | 3 |
| Mechanical | 0 | 0 | 1 | 2 | 0 | 2 | 0 | 1 | 1 | 1 |
| Other engineering | 4 | 0 | 3 | 1 | 0 | 3 | 4 | 1 | 3 | 3 |
| Sciences, total | 40 | 50 | 47 | 48 | 63 | 45 | 61 | 62 | 62 | 63 |
| Physical sciences, total | 8 | 17 | 16 | 16 | 14 | 11 | 14 | 12 | 19 | 12 |
| Astronomy | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| Chemistry | 4 | 17 | 13 | 12 | 10 | 9 | 9 | 9 | 13 | 9 |
| Physics | 4 | 0 | 3 | 3 | 3 | 2 | 4 | 3 | 6 | 3 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 1 | 0 | 0 | 0 | 4 | 0 | 3 | 1 | 0 | 1 |
| Mathematics | 2 | 4 | 1 | 1 | 2 | 0 | 1 | 1 | 1 | 0 |
| Computer sciences | 2 | 1 | 0 | 0 | 2 | 3 | 1 | 0 | 4 | 0 |
| Biological sciences | 9 | 11 | 10 | 14 | 14 | 12 | 16 | 16 | 14 | 21 |
| Agricultural sciences | 3 | 3 | 2 | 5 | 4 | 0 | 3 | 7 | 2 | 3 |
| Psychology | 8 | 8 | 12 | 5 | 11 | 6 | 16 | 13 | 13 | 13 |
| Social sciences | 7 | 6 | 6 | 7 | 12 | 13 | 7 | 12 | 9 | 13 |
| Non-S&E, total | 28 | 41 | 30 | 32 | 37 | 32 | 39 | 51 | 51 | 46 |
| Health | 2 | 0 | 2 | 1 | 0 | 2 | 3 | 0 | 2 | 7 |
| Humanities[1] | 4 | 18 | 9 | 10 | 8 | 11 | 10 | 18 | 16 | 14 |
| Education | 20 | 19 | 15 | 17 | 26 | 16 | 23 | 25 | 23 | 19 |
| Professional/other | 2 | 4 | 4 | 4 | 3 | 3 | 3 | 8 | 10 | 6 |
| Grand total, all fields | 77 | 94 | 88 | 86 | 104 | 84 | 110 | 121 | 123 | 120 |
| | U.S. citizens and permanent residents, male, Mexican American | | | | | | | | | |
| Science and engineering, total | 54 | 52 | 59 | 57 | 67 | 84 | 79 | 73 | 87 | 89 |
| Engineering, total | 5 | 7 | 11 | 9 | 11 | 12 | 10 | 10 | 13 | 18 |
| Chemical | 1 | 1 | 0 | 1 | 2 | 3 | 1 | 1 | 1 | 2 |
| Civil | 1 | 1 | 0 | 1 | 1 | 2 | 2 | 0 | 2 | 7 |
| Electrical | 1 | 1 | 2 | 2 | 4 | 3 | 3 | 2 | 4 | 3 |
| Mechanical | 2 | 1 | 1 | 0 | 2 | 2 | 2 | 0 | 2 | 2 |
| Other engineering | 0 | 3 | 8 | 5 | 2 | 2 | 2 | 7 | 4 | 4 |
| Sciences, total | 49 | 45 | 48 | 48 | 56 | 72 | 69 | 63 | 74 | 71 |
| Physical sciences, total | 9 | 8 | 11 | 9 | 8 | 12 | 7 | 9 | 20 | 9 |
| Astronomy | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Chemistry | 8 | 4 | 9 | 8 | 8 | 10 | 4 | 6 | 16 | 6 |
| Physics | 1 | 4 | 1 | 1 | 0 | 2 | 3 | 3 | 3 | 3 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 0 | 2 | 2 | 2 | 2 | 4 | 5 | 2 | 4 | 3 |
| Mathematics | 2 | 0 | 0 | 2 | 1 | 1 | 4 | 3 | 3 | 4 |
| Computer sciences | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 1 | 2 | 1 |
| Biological sciences | 3 | 6 | 12 | 9 | 15 | 19 | 11 | 13 | 17 | 17 |
| Agricultural sciences | 2 | 3 | 1 | 6 | 7 | 4 | 4 | 3 | 4 | 3 |
| Psychology | 20 | 11 | 9 | 10 | 11 | 20 | 19 | 16 | 17 | 15 |
| Social sciences | 13 | 14 | 13 | 10 | 12 | 12 | 16 | 16 | 7 | 19 |
| Non-S&E, total | 53 | 55 | 54 | 46 | 51 | 48 | 46 | 59 | 74 | 70 |
| Health | 2 | 1 | 2 | 3 | 1 | 0 | 0 | 3 | 2 | 3 |
| Humanities[1] | 15 | 13 | 12 | 12 | 11 | 14 | 14 | 19 | 23 | 21 |
| Education | 32 | 36 | 33 | 26 | 31 | 28 | 26 | 30 | 38 | 42 |
| Professional/other | 4 | 5 | 7 | 5 | 8 | 6 | 6 | 7 | 11 | 4 |
| Grand total, all fields | 107 | 107 | 113 | 103 | 118 | 132 | 125 | 132 | 161 | 159 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens and permanent residents, male, other Hispanic | | | | | | | | | |
| Science and engineering, total | 124 | 111 | 131 | 116 | 156 | 170 | 158 | 177 | 159 | 173 |
| Engineering, total | 18 | 19 | 35 | 24 | 30 | 31 | 36 | 36 | 37 | 37 |
| Chemical | 1 | 6 | 5 | 3 | 3 | 3 | 8 | 4 | 4 | 6 |
| Civil | 5 | 0 | 7 | 6 | 5 | 0 | 3 | 10 | 8 | 2 |
| Electrical | 3 | 3 | 8 | 10 | 7 | 12 | 9 | 8 | 14 | 8 |
| Mechanical | 4 | 4 | 4 | 0 | 2 | 3 | 7 | 4 | 4 | 5 |
| Other engineering | 5 | 6 | 11 | 5 | 13 | 13 | 9 | 10 | 7 | 16 |
| Sciences, total | 106 | 92 | 96 | 92 | 126 | 139 | 122 | 141 | 122 | 136 |
| Physical sciences, total | 15 | 14 | 25 | 16 | 24 | 31 | 31 | 38 | 30 | 31 |
| Astronomy | 1 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 |
| Chemistry | 7 | 8 | 13 | 6 | 15 | 18 | 13 | 18 | 14 | 14 |
| Physics | 6 | 6 | 6 | 9 | 8 | 12 | 16 | 18 | 15 | 15 |
| Other physical sciences | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 2 | 2 | 1 | 4 | 3 | 10 | 2 | 8 | 2 | 2 |
| Mathematics | 5 | 5 | 3 | 4 | 3 | 4 | 4 | 10 | 6 | 7 |
| Computer sciences | 5 | 2 | 2 | 1 | 2 | 8 | 3 | 5 | 1 | 1 |
| Biological sciences | 27 | 21 | 27 | 27 | 27 | 25 | 32 | 28 | 38 | 41 |
| Agricultural sciences | 6 | 5 | 16 | 4 | 6 | 8 | 7 | 5 | 7 | 10 |
| Psychology | 19 | 13 | 17 | 15 | 30 | 26 | 20 | 16 | 13 | 20 |
| Social sciences | 27 | 30 | 10 | 21 | 31 | 27 | 23 | 31 | 25 | 24 |
| Non-S&E, total | 65 | 70 | 53 | 71 | 71 | 72 | 89 | 87 | 74 | 84 |
| Health | 1 | 2 | 3 | 0 | 1 | 5 | 1 | 5 | 3 | 5 |
| Humanities[1] | 26 | 31 | 26 | 29 | 33 | 39 | 42 | 35 | 39 | 36 |
| Education | 24 | 31 | 18 | 31 | 28 | 21 | 33 | 39 | 21 | 30 |
| Professional/other | 14 | 6 | 6 | 12 | 9 | 7 | 13 | 8 | 11 | 13 |
| Grand total, all fields | 189 | 181 | 184 | 187 | 227 | 242 | 247 | 264 | 233 | 257 |
| | U.S. citizens and permanent residents, male, white | | | | | | | | | |
| Science and engineering, total | 8,333 | 8,222 | 8,428 | 8,213 | 8,648 | 8,584 | 8,623 | 8,723 | 8,731 | 8,670 |
| Engineering, total | 1,218 | 1,314 | 1,492 | 1,502 | 1,614 | 1,602 | 1,640 | 1,764 | 1,715 | 1,766 |
| Chemical | 196 | 223 | 272 | 293 | 270 | 277 | 225 | 244 | 211 | 196 |
| Civil | 139 | 149 | 171 | 157 | 167 | 143 | 147 | 143 | 153 | 160 |
| Electrical | 299 | 271 | 341 | 378 | 411 | 444 | 447 | 504 | 494 | 522 |
| Mechanical | 198 | 219 | 237 | 224 | 267 | 236 | 307 | 296 | 311 | 309 |
| Other engineering | 386 | 452 | 471 | 450 | 499 | 502 | 514 | 577 | 546 | 579 |
| Sciences, total | 7,115 | 6,908 | 6,936 | 6,711 | 7,034 | 6,982 | 6,983 | 6,959 | 7,016 | 6,904 |
| Physical sciences, total | 1,564 | 1,622 | 1,609 | 1,454 | 1,623 | 1,585 | 1,574 | 1,523 | 1,617 | 1,474 |
| Astronomy | 76 | 60 | 81 | 72 | 70 | 77 | 84 | 79 | 78 | 92 |
| Chemistry | 953 | 996 | 981 | 872 | 969 | 926 | 901 | 846 | 872 | 759 |
| Physics | 524 | 553 | 535 | 509 | 570 | 572 | 575 | 590 | 656 | 612 |
| Other physical sciences | 11 | 13 | 12 | 10 | 14 | 10 | 14 | 8 | 11 | 11 |
| Earth, atmospheric, and ocean sciences | 324 | 310 | 380 | 388 | 385 | 415 | 353 | 345 | 381 | 356 |
| Mathematics | 282 | 258 | 273 | 281 | 293 | 335 | 332 | 352 | 361 | 409 |
| Computer sciences | 154 | 184 | 225 | 252 | 259 | 282 | 309 | 327 | 326 | 349 |
| Biological sciences | 1,911 | 1,764 | 1,852 | 1,784 | 1,821 | 1,871 | 1,847 | 1,835 | 1,759 | 1,772 |
| Agricultural sciences | 447 | 445 | 408 | 421 | 455 | 422 | 364 | 323 | 367 | 369 |
| Psychology | 1,235 | 1,170 | 1,094 | 1,065 | 1,075 | 991 | 1,078 | 1,094 | 1,029 | 980 |
| Social sciences | 1,198 | 1,155 | 1,095 | 1,066 | 1,123 | 1,081 | 1,126 | 1,160 | 1,176 | 1,195 |
| Non-S&E, total | 4,391 | 4,388 | 4,368 | 4,215 | 4,513 | 4,564 | 4,642 | 4,608 | 4,825 | 4,815 |
| Health | 142 | 191 | 179 | 195 | 203 | 199 | 177 | 208 | 258 | 234 |
| Humanities[1] | 1,330 | 1,292 | 1,368 | 1,302 | 1,505 | 1,516 | 1,629 | 1,606 | 1,726 | 1,821 |
| Education | 2,168 | 2,102 | 2,023 | 1,911 | 2,030 | 1,997 | 1,983 | 1,977 | 1,967 | 1,823 |
| Professional/other | 751 | 803 | 798 | 807 | 775 | 852 | 853 | 817 | 874 | 937 |
| Grand total, all fields | 12,724 | 12,610 | 12,796 | 12,428 | 13,161 | 13,148 | 13,265 | 13,331 | 13,556 | 13,485 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens and permanent residents, female | | | | | | | | | |
| Science and engineering, total | 4,367 | 4,424 | 4,611 | 4,921 | 5,181 | 5,596 | 5,577 | 6,024 | 6,493 | 6,892 |
| Engineering, total | 162 | 174 | 196 | 275 | 276 | 316 | 328 | 348 | 448 | 518 |
| Chemical | 42 | 52 | 53 | 69 | 62 | 60 | 82 | 64 | 78 | 88 |
| Civil | 15 | 11 | 15 | 40 | 34 | 25 | 23 | 32 | 55 | 52 |
| Electrical | 25 | 15 | 33 | 36 | 47 | 48 | 67 | 80 | 88 | 120 |
| Mechanical | 13 | 11 | 17 | 19 | 24 | 37 | 25 | 36 | 54 | 48 |
| Other engineering | 67 | 85 | 78 | 111 | 109 | 146 | 131 | 136 | 173 | 210 |
| Sciences, total | 4,205 | 4,250 | 4,415 | 4,646 | 4,905 | 5,280 | 5,249 | 5,676 | 6,045 | 6,374 |
| Physical sciences, total | 376 | 399 | 410 | 437 | 470 | 454 | 514 | 521 | 625 | 708 |
| Astronomy | 7 | 9 | 14 | 13 | 18 | 7 | 15 | 23 | 21 | 25 |
| Chemistry | 309 | 327 | 328 | 365 | 383 | 368 | 401 | 401 | 464 | 537 |
| Physics | 55 | 62 | 60 | 58 | 62 | 76 | 94 | 94 | 137 | 143 |
| Other physical sciences | 5 | 1 | 8 | 1 | 7 | 3 | 4 | 3 | 3 | 3 |
| Earth, atmospheric, and ocean sciences | 76 | 89 | 112 | 120 | 118 | 157 | 147 | 120 | 144 | 144 |
| Mathematics | 73 | 77 | 70 | 101 | 93 | 112 | 117 | 164 | 151 | 183 |
| Computer sciences | 43 | 54 | 46 | 84 | 90 | 94 | 83 | 109 | 94 | 143 |
| Biological sciences | 1,116 | 1,144 | 1,252 | 1,276 | 1,311 | 1,389 | 1,438 | 1,584 | 1,741 | 1,854 |
| Agricultural sciences | 123 | 126 | 128 | 164 | 159 | 137 | 150 | 134 | 160 | 135 |
| Psychology | 1,470 | 1,529 | 1,512 | 1,563 | 1,772 | 1,890 | 1,780 | 1,938 | 1,968 | 2,044 |
| Social sciences | 928 | 832 | 885 | 901 | 892 | 1,047 | 1,020 | 1,106 | 1,162 | 1,163 |
| Non-S&E, total | 5,446 | 5,447 | 5,413 | 5,571 | 6,066 | 6,219 | 6,586 | 6,687 | 7,016 | 7,203 |
| Health | 424 | 415 | 476 | 531 | 517 | 587 | 629 | 679 | 722 | 720 |
| Humanities[1] | 1,199 | 1,221 | 1,244 | 1,243 | 1,422 | 1,491 | 1,608 | 1,697 | 1,788 | 1,978 |
| Education | 3,276 | 3,212 | 3,140 | 3,189 | 3,429 | 3,439 | 3,655 | 3,581 | 3,744 | 3,694 |
| Professional/other | 547 | 599 | 553 | 608 | 698 | 702 | 694 | 730 | 762 | 811 |
| Grand total, all fields | 9,813 | 9,871 | 10,024 | 10,492 | 11,247 | 11,815 | 12,163 | 12,711 | 13,509 | 14,095 |
| | U.S. citizens and permanent residents, female, American Indian/Alaskan Native | | | | | | | | | |
| Science and engineering, total | 19 | 21 | 15 | 20 | 18 | 19 | 27 | 18 | 24 | 25 |
| Engineering, total | 1 | 0 | 0 | 2 | 0 | 2 | 3 | 0 | 2 | 0 |
| Chemical | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Civil | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| Electrical | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| Mechanical | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other engineering | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 0 |
| Sciences, total | 18 | 21 | 15 | 18 | 18 | 17 | 24 | 18 | 22 | 25 |
| Physical sciences, total | 2 | 2 | 1 | 0 | 0 | 2 | 2 | 2 | 1 | 3 |
| Astronomy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chemistry | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 3 |
| Physics | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 1 | 0 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |
| Mathematics | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Computer sciences | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |
| Biological sciences | 6 | 4 | 2 | 3 | 1 | 4 | 5 | 2 | 5 | 5 |
| Agricultural sciences | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Psychology | 5 | 12 | 4 | 8 | 13 | 8 | 9 | 9 | 7 | 8 |
| Social sciences | 3 | 2 | 5 | 3 | 3 | 2 | 7 | 4 | 8 | 8 |
| Non-S&E, total | 22 | 32 | 27 | 25 | 27 | 39 | 40 | 42 | 47 | 42 |
| Health | 6 | 2 | 4 | 3 | 0 | 2 | 2 | 6 | 5 | 7 |
| Humanities[1] | 1 | 4 | 4 | 5 | 2 | 7 | 6 | 3 | 8 | 8 |
| Education | 10 | 23 | 18 | 15 | 21 | 27 | 30 | 30 | 26 | 24 |
| Professional/other | 5 | 3 | 1 | 2 | 4 | 3 | 2 | 3 | 8 | 3 |
| Grand total, all fields | 41 | 53 | 42 | 45 | 45 | 58 | 67 | 60 | 71 | 67 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U S citizens and permanent residents, female, Asian | | | | | | | | | |
| Science and engineering, total | 195 | 231 | 222 | 241 | 252 | 374 | 418 | 531 | 820 | 1,109 |
| Engineering, total | 15 | 22 | 18 | 34 | 33 | 49 | 61 | 61 | 119 | 168 |
| Chemical | 6 | 6 | 6 | 11 | 11 | 9 | 16 | 7 | 25 | 25 |
| Civil | 0 | 2 | 1 | 3 | 3 | 4 | 2 | 2 | 4 | 14 |
| Electrical | 4 | 3 | 6 | 8 | 6 | 5 | 21 | 25 | 31 | 46 |
| Mechanical | 0 | 0 | 0 | 1 | 3 | 3 | 4 | 3 | 24 | 22 |
| Other engineering | 5 | 11 | 5 | 11 | 10 | 28 | 18 | 24 | 35 | 61 |
| Sciences, total | 180 | 209 | 204 | 207 | 219 | 325 | 357 | 470 | 701 | 941 |
| Physical sciences, total | 41 | 36 | 42 | 36 | 42 | 48 | 80 | 97 | 178 | 211 |
| Astronomy | 2 | 0 | 1 | 2 | 2 | 0 | 2 | 2 | 1 | 4 |
| Chemistry | 35 | 31 | 28 | 23 | 29 | 36 | 56 | 72 | 129 | 146 |
| Physics | 4 | 5 | 13 | 11 | 11 | 12 | 22 | 23 | 47 | 61 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Earth, atmospheric, and ocean sciences | 1 | 3 | 4 | 4 | 1 | 6 | 8 | 8 | 17 | 28 |
| Mathematics | 5 | 11 | 11 | 3 | 7 | 18 | 19 | 36 | 26 | 50 |
| Computer sciences | 3 | 6 | 6 | 10 | 7 | 15 | 12 | 19 | 16 | 30 |
| Biological sciences | 67 | 77 | 73 | 89 | 87 | 129 | 133 | 172 | 269 | 409 |
| Agricultural sciences | 4 | 7 | 7 | 6 | 6 | 8 | 12 | 9 | 20 | 16 |
| Psychology | 24 | 31 | 27 | 27 | 31 | 44 | 39 | 51 | 77 | 77 |
| Social sciences | 35 | 38 | 34 | 32 | 38 | 57 | 54 | 78 | 98 | 120 |
| Non-S&E, total | 100 | 113 | 143 | 122 | 145 | 185 | 209 | 199 | 256 | 323 |
| Health | 12 | 17 | 12 | 9 | 22 | 23 | 30 | 23 | 46 | 42 |
| Humanities[1] | 26 | 31 | 33 | 37 | 34 | 42 | 51 | 66 | 67 | 110 |
| Education | 50 | 49 | 71 | 59 | 65 | 85 | 95 | 86 | 106 | 115 |
| Professional/other | 12 | 16 | 27 | 17 | 24 | 35 | 33 | 24 | 37 | 56 |
| Grand total, all fields | 295 | 344 | 365 | 363 | 397 | 559 | 627 | 730 | 1,076 | 1,432 |
| | U S citizens and permanent residents, female, black | | | | | | | | | |
| Science and engineering, total | 152 | 130 | 137 | 153 | 148 | 193 | 170 | 208 | 214 | 268 |
| Engineering, total | 4 | 1 | 4 | 3 | 6 | 8 | 6 | 11 | 13 | 15 |
| Chemical | 1 | 0 | 1 | 1 | 2 | 1 | 1 | 3 | 4 | 1 |
| Civil | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 | 3 |
| Electrical | 0 | 0 | 2 | 0 | 1 | 2 | 2 | 2 | 3 | 4 |
| Mechanical | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 |
| Other engineering | 1 | 1 | 1 | 2 | 3 | 2 | 3 | 4 | 3 | 6 |
| Sciences, total | 148 | 129 | 133 | 150 | 142 | 185 | 164 | 197 | 201 | 253 |
| Physical sciences, total | 4 | 3 | 8 | 7 | 7 | 5 | 6 | 10 | 13 | 18 |
| Astronomy | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Chemistry | 3 | 2 | 7 | 7 | 7 | 5 | 5 | 9 | 9 | 17 |
| Physics | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 1 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 0 | 1 | 0 | 1 | 2 | 1 | 1 | 0 | 1 | 0 |
| Mathematics | 3 | 2 | 0 | 3 | 1 | 4 | 0 | 1 | 3 | 1 |
| Computer sciences | 0 | 1 | 0 | 1 | 0 | 4 | 1 | 4 | 2 | 4 |
| Biological sciences | 22 | 25 | 23 | 24 | 21 | 31 | 24 | 32 | 43 | 41 |
| Agricultural sciences | 3 | 3 | 5 | 1 | 1 | 1 | 4 | 4 | 6 | 6 |
| Psychology | 68 | 59 | 58 | 61 | 72 | 86 | 78 | 75 | 78 | 112 |
| Social sciences | 48 | 35 | 39 | 52 | 38 | 53 | 50 | 71 | 55 | 71 |
| Non-S&E, total | 373 | 344 | 390 | 357 | 422 | 419 | 426 | 492 | 508 | 579 |
| Health | 15 | 19 | 24 | 20 | 18 | 23 | 24 | 41 | 35 | 42 |
| Humanities[1] | 35 | 39 | 36 | 36 | 35 | 48 | 43 | 42 | 55 | 61 |
| Education | 290 | 255 | 277 | 270 | 327 | 292 | 326 | 355 | 358 | 412 |
| Professional/other | 33 | 31 | 53 | 31 | 42 | 56 | 33 | 54 | 60 | 64 |
| Grand total, all fields | 525 | 474 | 527 | 510 | 570 | 612 | 596 | 700 | 722 | 847 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens and permanent residents, female, Hispanic | | | | | | | | | |
| Science and engineering, total | 118 | 141 | 149 | 155 | 178 | 186 | 205 | 222 | 230 | 232 |
| Engineering, total | 3 | 5 | 6 | 8 | 9 | 10 | 15 | 12 | 6 | 11 |
| Chemical | 2 | 3 | 0 | 4 | 1 | 4 | 4 | 3 | 0 | 2 |
| Civil | 0 | 0 | 1 | 0 | 2 | 2 | 1 | 2 | 3 | 1 |
| Electrical | 1 | 0 | 2 | 1 | 1 | 0 | 3 | 3 | 0 | 1 |
| Mechanical | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 0 | 1 | 0 |
| Other engineering | 0 | 2 | 2 | 2 | 4 | 2 | 5 | 4 | 2 | 7 |
| Sciences, total | 115 | 136 | 143 | 147 | 169 | 176 | 190 | 210 | 224 | 221 |
| Physical sciences, total | 9 | 17 | 16 | 18 | 26 | 11 | 20 | 20 | 21 | 21 |
| Astronomy | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |
| Chemistry | 6 | 15 | 13 | 17 | 24 | 9 | 16 | 18 | 16 | 14 |
| Physics | 2 | 2 | 3 | 1 | 2 | 2 | 3 | 2 | 5 | 5 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 1 | 1 | 4 | 3 | 4 | 2 | 6 | 2 | 2 | 6 |
| Mathematics | 3 | 2 | 0 | 4 | 4 | 4 | 3 | 2 | 3 | 4 |
| Computer sciences | 0 | 0 | 0 | 3 | 1 | 1 | 1 | 1 | 0 | 4 |
| Biological sciences | 27 | 24 | 27 | 21 | 33 | 39 | 43 | 57 | 62 | 47 |
| Agricultural sciences | 6 | 4 | 2 | 3 | 6 | 3 | 4 | 5 | 12 | 5 |
| Psychology | 43 | 63 | 55 | 63 | 57 | 70 | 78 | 86 | 90 | 97 |
| Social sciences | 26 | 25 | 39 | 32 | 38 | 46 | 35 | 37 | 34 | 37 |
| Non-S&E, total | 188 | 185 | 159 | 163 | 210 | 223 | 222 | 234 | 282 | 287 |
| Health | 7 | 6 | 6 | 7 | 15 | 9 | 9 | 16 | 18 | 15 |
| Humanities[1] | 46 | 52 | 55 | 49 | 75 | 72 | 63 | 73 | 89 | 82 |
| Education | 128 | 115 | 92 | 98 | 105 | 124 | 132 | 128 | 159 | 164 |
| Professional/other | 7 | 10 | 6 | 9 | 15 | 18 | 18 | 17 | 16 | 26 |
| Grand total, all fields | 306 | 326 | 308 | 318 | 388 | 409 | 427 | 456 | 512 | 519 |
| | U.S. citizens and permanent residents, female, Puerto Rican | | | | | | | | | |
| Science and engineering, total | 25 | 33 | 38 | 39 | 48 | 47 | 49 | 42 | 59 | 63 |
| Engineering, total | 2 | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 0 | 2 |
| Chemical | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Civil | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Electrical | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 |
| Mechanical | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| Other engineering | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 |
| Sciences, total | 23 | 32 | 36 | 38 | 46 | 45 | 46 | 40 | 59 | 61 |
| Physical sciences, total | 1 | 9 | 7 | 4 | 10 | 6 | 6 | 5 | 7 | 9 |
| Astronomy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Chemistry | 1 | 9 | 6 | 4 | 10 | 5 | 5 | 5 | 6 | 8 |
| Physics | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Mathematics | 1 | 2 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 1 |
| Computer sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Biological sciences | 3 | 7 | 10 | 4 | 10 | 11 | 11 | 11 | 14 | 9 |
| Agricultural sciences | 1 | 3 | 0 | 2 | 1 | 0 | 0 | 3 | 3 | 0 |
| Psychology | 9 | 7 | 14 | 16 | 15 | 14 | 19 | 11 | 30 | 31 |
| Social sciences | 8 | 4 | 5 | 9 | 9 | 14 | 9 | 9 | 5 | 10 |
| Non-S&E, total | 36 | 52 | 48 | 51 | 58 | 60 | 70 | 69 | 75 | 86 |
| Health | 2 | 3 | 2 | 3 | 6 | 1 | 1 | 3 | 4 | 5 |
| Humanities[1] | 7 | 11 | 14 | 12 | 20 | 19 | 12 | 18 | 22 | 16 |
| Education | 25 | 33 | 29 | 35 | 30 | 36 | 53 | 45 | 45 | 50 |
| Professional/other | 2 | 5 | 3 | 1 | 2 | 4 | 4 | 3 | 4 | 15 |
| Grand total, all fields | 61 | 85 | 86 | 90 | 106 | 107 | 119 | 111 | 134 | 149 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens and permanent residents, female, Mexican American | | | | | | | | | |
| Science and engineering, total | 27 | 27 | 35 | 38 | 37 | 42 | 41 | 49 | 58 | 61 |
| Engineering, total | 0 | 1 | 0 | 5 | 2 | 2 | 0 | 2 | 2 | 1 |
| Chemical | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 1 |
| Civil | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Electrical | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mechanical | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| Other engineering | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 2 | 0 |
| Sciences, total | 27 | 26 | 35 | 33 | 35 | 40 | 41 | 47 | 56 | 60 |
| Physical sciences, total | 3 | 1 | 1 | 2 | 3 | 3 | 2 | 3 | 4 | 4 |
| Astronomy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Chemistry | 2 | 0 | 1 | 2 | 3 | 2 | 2 | 2 | 3 | 2 |
| Physics | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 0 | 0 | 2 | 0 | 1 | 0 | 2 | 0 | 0 | 1 |
| Mathematics | 1 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 1 | 2 |
| Computer sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Biological sciences | 6 | 4 | 2 | 3 | 7 | 7 | 13 | 11 | 13 | 11 |
| Agricultural sciences | 2 | 0 | 2 | 0 | 1 | 1 | 1 | 1 | 2 | 1 |
| Psychology | 9 | 16 | 19 | 21 | 14 | 15 | 18 | 26 | 23 | 33 |
| Social sciences | 6 | 5 | 9 | 7 | 7 | 12 | 5 | 5 | 13 | 6 |
| Non-S&E, total | 61 | 45 | 42 | 37 | 35 | 58 | 53 | 71 | 89 | 69 |
| Health | 1 | 2 | 1 | 2 | 6 | 3 | 5 | 5 | 3 | 5 |
| Humanities[1] | 8 | 4 | 9 | 10 | 8 | 13 | 10 | 16 | 19 | 13 |
| Education | 49 | 37 | 30 | 24 | 19 | 39 | 32 | 44 | 64 | 50 |
| Professional/other | 3 | 2 | 2 | 1 | 2 | 3 | 6 | 6 | 3 | 1 |
| Grand total, all fields | 88 | 72 | 77 | 75 | 72 | 100 | 94 | 120 | 147 | 130 |
| | U.S. citizens and permanent residents, female, other Hispanic | | | | | | | | | |
| Science and engineering, total | 66 | 81 | 76 | 78 | 93 | 97 | 115 | 131 | 113 | 108 |
| Engineering, total | 1 | 3 | 4 | 2 | 5 | 6 | 12 | 8 | 4 | 8 |
| Chemical | 0 | 3 | 0 | 1 | 1 | 2 | 4 | 3 | 0 | 0 |
| Civil | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 3 | 1 |
| Electrical | 1 | 0 | 2 | 0 | 0 | 0 | 2 | 2 | 0 | 1 |
| Mechanical | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 |
| Other engineering | 0 | 0 | 1 | 1 | 3 | 1 | 4 | 2 | 0 | 6 |
| Sciences, total | 65 | 78 | 72 | 76 | 88 | 91 | 103 | 123 | 109 | 100 |
| Physical sciences, total | 5 | 7 | 8 | 12 | 13 | 2 | 12 | 12 | 10 | 8 |
| Astronomy | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Chemistry | 3 | 6 | 6 | 11 | 11 | 2 | 9 | 11 | 7 | 4 |
| Physics | 1 | 1 | 2 | 1 | 2 | 0 | 2 | 1 | 3 | 4 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 1 | 1 | 2 | 3 | 2 | 2 | 4 | 2 | 2 | 4 |
| Mathematics | 1 | 0 | 0 | 1 | 2 | 2 | 2 | 1 | 2 | 1 |
| Computer sciences | 0 | 0 | 0 | 3 | 1 | 1 | 1 | 0 | 0 | 2 |
| Biological sciences | 18 | 13 | 15 | 14 | 16 | 21 | 19 | 35 | 35 | 27 |
| Agricultural sciences | 3 | 1 | 0 | 1 | 4 | 2 | 3 | 1 | 7 | 4 |
| Psychology | 25 | 40 | 22 | 26 | 28 | 41 | 41 | 49 | 37 | 33 |
| Social sciences | 12 | 16 | 25 | 16 | 22 | 20 | 21 | 23 | 16 | 21 |
| Non-S&E, total | 91 | 88 | 69 | 75 | 117 | 105 | 99 | 94 | 118 | 132 |
| Health | 4 | 3 | 3 | 2 | 3 | 5 | 3 | 8 | 11 | 5 |
| Humanities[1] | 31 | 37 | 32 | 27 | 47 | 40 | 41 | 39 | 48 | 53 |
| Education | 54 | 45 | 33 | 39 | 56 | 49 | 47 | 39 | 50 | 64 |
| Professional/other | 2 | 3 | 1 | 7 | 11 | 11 | 8 | 8 | 9 | 10 |
| Grand total, all fields | 157 | 169 | 145 | 153 | 210 | 202 | 214 | 225 | 231 | 240 |

See explanatory information, if any, and SOURCE at end of table.

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## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens and permanent residents, female, white | | | | | | | | | |
| Science and engineering, total | 3,818 | 3,830 | 4,028 | 4,288 | 4,522 | 4,739 | 4,703 | 5,012 | 5,159 | 5,209 |
| Engineering, total | 136 | 144 | 163 | 224 | 226 | 235 | 240 | 261 | 305 | 320 |
| Chemical | 31 | 43 | 45 | 52 | 48 | 45 | 59 | 51 | 48 | 60 |
| Civil | 13 | 9 | 12 | 34 | 29 | 16 | 19 | 25 | 46 | 34 |
| Electrical | 20 | 12 | 22 | 27 | 39 | 34 | 40 | 49 | 54 | 66 |
| Mechanical | 12 | 11 | 16 | 17 | 19 | 30 | 19 | 32 | 26 | 25 |
| Other engineering | 60 | 69 | 68 | 94 | 91 | 110 | 103 | 104 | 131 | 135 |
| Sciences, total | 3,682 | 3,686 | 3,865 | 4,064 | 4,296 | 4,504 | 4,463 | 4,751 | 4,854 | 4,889 |
| Physical sciences, total | 311 | 334 | 339 | 374 | 385 | 383 | 399 | 388 | 408 | 447 |
| Astronomy | 3 | 9 | 12 | 11 | 16 | 6 | 11 | 21 | 19 | 19 |
| Chemistry | 256 | 271 | 277 | 316 | 315 | 313 | 318 | 299 | 307 | 351 |
| Physics | 47 | 53 | 42 | 46 | 48 | 61 | 66 | 66 | 80 | 74 |
| Other physical sciences | 5 | 1 | 8 | 1 | 6 | 3 | 4 | 2 | 2 | 3 |
| Earth, atmospheric, and ocean sciences | 73 | 84 | 100 | 110 | 109 | 142 | 132 | 110 | 123 | 108 |
| Mathematics | 61 | 61 | 59 | 88 | 79 | 84 | 93 | 124 | 118 | 126 |
| Computer sciences | 40 | 45 | 40 | 67 | 80 | 73 | 69 | 83 | 75 | 104 |
| Biological sciences | 977 | 995 | 1,114 | 1,120 | 1,154 | 1,170 | 1,221 | 1,311 | 1,349 | 1,344 |
| Agricultural sciences | 110 | 109 | 110 | 149 | 146 | 123 | 129 | 115 | 120 | 104 |
| Psychology | 1,313 | 1,346 | 1,351 | 1,388 | 1,573 | 1,661 | 1,558 | 1,711 | 1,702 | 1,735 |
| Social sciences | 797 | 712 | 752 | 768 | 770 | 868 | 862 | 909 | 959 | 921 |
| Non-S&E, total | 4,694 | 4,682 | 4,637 | 4,854 | 5,196 | 5,292 | 5,631 | 5,684 | 5,870 | 5,914 |
| Health | 382 | 362 | 427 | 489 | 459 | 521 | 558 | 592 | 609 | 601 |
| Humanities[1] | 1,071 | 1,071 | 1,103 | 1,097 | 1,261 | 1,305 | 1,432 | 1,503 | 1,556 | 1,699 |
| Education | 2,755 | 2,718 | 2,645 | 2,723 | 2,871 | 2,886 | 3,042 | 2,965 | 3,068 | 2,956 |
| Professional/other | 486 | 531 | 462 | 545 | 605 | 580 | 599 | 624 | 637 | 658 |
| Grand total, all fields | 8,512 | 8,512 | 8,665 | 9,142 | 9,718 | 10,031 | 10,334 | 10,696 | 11,029 | 11,123 |
| | U.S. citizens | | | | | | | | | |
| Science and engineering, total | 13,022 | 12,966 | 13,369 | 13,467 | 14,166 | 14,624 | 14,558 | 14,929 | 15,162 | 15,460 |
| Engineering, total | 1,383 | 1,558 | 1,780 | 1,864 | 1,957 | 2,086 | 2,109 | 2,228 | 2,215 | 2,382 |
| Chemical | 241 | 294 | 358 | 382 | 342 | 348 | 318 | 324 | 293 | 291 |
| Civil | 139 | 162 | 187 | 188 | 180 | 173 | 164 | 168 | 203 | 206 |
| Electrical | 327 | 320 | 398 | 440 | 491 | 554 | 597 | 630 | 634 | 683 |
| Mechanical | 209 | 241 | 256 | 259 | 299 | 297 | 352 | 347 | 359 | 379 |
| Other engineering | 467 | 541 | 581 | 595 | 645 | 714 | 678 | 759 | 726 | 823 |
| Sciences, total | 11,639 | 11,408 | 11,589 | 11,603 | 12,209 | 12,538 | 12,449 | 12,701 | 12,947 | 13,078 |
| Physical sciences, total | 2,032 | 2,095 | 2,119 | 1,984 | 2,169 | 2,119 | 2,157 | 2,093 | 2,198 | 2,136 |
| Astronomy | 88 | 72 | 97 | 78 | 92 | 84 | 100 | 106 | 103 | 120 |
| Chemistry | 1,320 | 1,381 | 1,378 | 1,298 | 1,398 | 1,350 | 1,328 | 1,272 | 1,291 | 1,237 |
| Physics | 606 | 627 | 626 | 597 | 660 | 671 | 709 | 704 | 789 | 764 |
| Other physical sciences | 18 | 15 | 18 | 11 | 19 | 14 | 20 | 11 | 15 | 15 |
| Earth, atmospheric, and ocean sciences | 404 | 410 | 493 | 518 | 516 | 592 | 506 | 463 | 507 | 478 |
| Mathematics | 366 | 345 | 342 | 393 | 375 | 463 | 454 | 496 | 504 | 554 |
| Computer sciences | 202 | 243 | 284 | 338 | 348 | 388 | 422 | 425 | 426 | 484 |
| Biological sciences | 3,124 | 2,981 | 3,131 | 3,117 | 3,190 | 3,310 | 3,327 | 3,448 | 3,418 | 3,489 |
| Agricultural sciences | 579 | 584 | 539 | 606 | 630 | 564 | 511 | 457 | 519 | 492 |
| Psychology | 2,767 | 2,747 | 2,668 | 2,683 | 2,919 | 2,953 | 2,900 | 3,069 | 3,053 | 3,068 |
| Social sciences | 2,165 | 2,003 | 2,013 | 1,964 | 2,062 | 2,149 | 2,172 | 2,250 | 2,322 | 2,377 |
| Non-S&E, total | 10,064 | 10,018 | 9,922 | 9,933 | 10,739 | 10,937 | 11,419 | 11,491 | 11,967 | 12,143 |
| Health | 568 | 606 | 657 | 729 | 721 | 779 | 809 | 879 | 961 | 938 |
| Humanities[1] | 2,528 | 2,509 | 2,609 | 2,530 | 2,899 | 2,975 | 3,211 | 3,274 | 3,485 | 3,745 |
| Education | 5,629 | 5,493 | 5,300 | 5,246 | 5,635 | 5,607 | 5,820 | 5,765 | 5,851 | 5,680 |
| Professional/other | 1,339 | 1,410 | 1,356 | 1,428 | 1,484 | 1,576 | 1,579 | 1,573 | 1,670 | 1,780 |
| Grand total, all fields | 23,086 | 22,984 | 23,291 | 23,400 | 24,905 | 25,561 | 25,977 | 26,420 | 27,129 | 27,603 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, American Indian/Alaskan Native | | | | | | | | | |
| Science and engineering, total | 52 | 53 | 44 | 53 | 43 | 56 | 69 | 43 | 64 | 69 |
| Engineering, total | 6 | 7 | 4 | 7 | 4 | 6 | 11 | 2 | 6 | 10 |
| Chemical | 0 | 1 | 2 | 1 | 0 | 1 | 1 | 1 | 1 | 2 |
| Civil | 0 | 1 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 |
| Electrical | 2 | 3 | 0 | 0 | 0 | 2 | 4 | 0 | 1 | 2 |
| Mechanical | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| Other engineering | 2 | 1 | 0 | 5 | 2 | 1 | 4 | 1 | 4 | 4 |
| Sciences, total | 46 | 46 | 40 | 46 | 39 | 50 | 58 | 41 | 58 | 59 |
| Physical sciences, total | 5 | 7 | 6 | 10 | 3 | 10 | 12 | 5 | 6 | 9 |
| Astronomy | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 |
| Chemistry | 5 | 6 | 5 | 5 | 3 | 9 | 6 | 2 | 4 | 7 |
| Physics | 0 | 1 | 1 | 3 | 0 | 1 | 6 | 2 | 2 | 2 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 2 | 0 | 2 | 6 | 1 | 3 | 1 | 4 | 1 | 0 |
| Mathematics | 1 | 0 | 2 | 0 | 1 | 0 | 2 | 1 | 2 | 2 |
| Computer sciences | 0 | 3 | 1 | 2 | 0 | 1 | 2 | 1 | 1 | 0 |
| Biological sciences | 17 | 11 | 6 | 7 | 4 | 10 | 13 | 7 | 16 | 15 |
| Agricultural sciences | 0 | 2 | 6 | 2 | 4 | 4 | 0 | 1 | 1 | 2 |
| Psychology | 9 | 16 | 7 | 11 | 19 | 13 | 15 | 15 | 12 | 14 |
| Social sciences | 12 | 7 | 10 | 8 | 7 | 9 | 13 | 7 | 19 | 17 |
| Non-S&E, total | 47 | 62 | 50 | 41 | 54 | 74 | 80 | 77 | 78 | 79 |
| Health | 6 | 3 | 5 | 3 | 1 | 5 | 5 | 6 | 6 | 9 |
| Humanities[1] | 6 | 10 | 4 | 7 | 6 | 10 | 18 | 10 | 20 | 18 |
| Education | 26 | 41 | 36 | 25 | 37 | 55 | 50 | 51 | 36 | 40 |
| Professional/other | 9 | 8 | 5 | 6 | 10 | 4 | 7 | 10 | 16 | 12 |
| Grand total, all fields | 99 | 115 | 94 | 94 | 97 | 130 | 149 | 120 | 142 | 148 |
| | U.S. citizens, Asian | | | | | | | | | |
| Science and engineering, total | 403 | 447 | 454 | 494 | 488 | 599 | 651 | 712 | 736 | 895 |
| Engineering, total | 80 | 135 | 141 | 174 | 157 | 187 | 214 | 217 | 202 | 255 |
| Chemical | 17 | 24 | 32 | 40 | 26 | 27 | 25 | 26 | 27 | 27 |
| Civil | 8 | 14 | 8 | 15 | 8 | 11 | 12 | 10 | 7 | 15 |
| Electrical | 19 | 41 | 45 | 48 | 51 | 67 | 95 | 86 | 97 | 92 |
| Mechanical | 10 | 25 | 22 | 25 | 27 | 26 | 35 | 34 | 28 | 39 |
| Other engineering | 26 | 31 | 34 | 46 | 45 | 56 | 47 | 61 | 43 | 82 |
| Sciences, total | 323 | 312 | 313 | 320 | 331 | 412 | 437 | 495 | 534 | 640 |
| Physical sciences, total | 76 | 67 | 67 | 75 | 86 | 86 | 108 | 121 | 122 | 148 |
| Astronomy | 5 | 1 | 2 | 0 | 1 | 0 | 2 | 3 | 4 | 4 |
| Chemistry | 57 | 49 | 48 | 42 | 54 | 63 | 65 | 76 | 70 | 91 |
| Physics | 14 | 17 | 17 | 33 | 31 | 23 | 41 | 42 | 47 | 53 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Earth, atmospheric, and ocean sciences | 6 | 9 | 8 | 12 | 4 | 7 | 14 | 6 | 7 | 8 |
| Mathematics | 14 | 18 | 17 | 13 | 11 | 23 | 21 | 28 | 18 | 25 |
| Computer sciences | 12 | 10 | 20 | 18 | 10 | 32 | 37 | 27 | 33 | 42 |
| Biological sciences | 125 | 106 | 101 | 122 | 116 | 160 | 134 | 190 | 194 | 229 |
| Agricultural sciences | 12 | 17 | 9 | 7 | 11 | 9 | 13 | 9 | 14 | 10 |
| Psychology | 33 | 39 | 37 | 38 | 44 | 46 | 47 | 52 | 81 | 84 |
| Social sciences | 45 | 46 | 54 | 35 | 49 | 49 | 63 | 62 | 65 | 94 |
| Non-S&E, total | 130 | 96 | 160 | 139 | 153 | 190 | 195 | 177 | 213 | 243 |
| Health | 15 | 19 | 16 | 11 | 26 | 23 | 32 | 17 | 36 | 23 |
| Humanities[1] | 26 | 22 | 36 | 41 | 30 | 43 | 46 | 53 | 59 | 85 |
| Education | 60 | 41 | 82 | 57 | 67 | 85 | 78 | 83 | 80 | 80 |
| Professional/other | 29 | 14 | 26 | 30 | 30 | 39 | 39 | 24 | 38 | 55 |
| Grand total, all fields | 533 | 543 | 614 | 633 | 641 | 789 | 846 | 889 | 949 | 1,138 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, black | | | | | | | | | |
| Science and engineering, total | 275 | 245 | 275 | 297 | 291 | 363 | 322 | 375 | 387 | 468 |
| Engineering, total | 14 | 12 | 19 | 24 | 28 | 43 | 32 | 41 | 44 | 54 |
| Chemical | 1 | 4 | 4 | 2 | 5 | 4 | 8 | 4 | 6 | 2 |
| Civil | 2 | 1 | 0 | 2 | 0 | 8 | 0 | 3 | 8 | 7 |
| Electrical | 2 | 0 | 7 | 8 | 7 | 16 | 12 | 13 | 14 | 20 |
| Mechanical | 3 | 2 | 0 | 5 | 5 | 3 | 3 | 2 | 4 | 8 |
| Other engineering | 6 | 5 | 8 | 7 | 11 | 12 | 9 | 19 | 12 | 17 |
| Sciences, total | 261 | 233 | 256 | 273 | 263 | 320 | 290 | 334 | 343 | 414 |
| Physical sciences, total | 21 | 16 | 29 | 25 | 19 | 24 | 21 | 29 | 33 | 37 |
| Astronomy | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 1 |
| Chemistry | 14 | 11 | 18 | 20 | 14 | 18 | 13 | 19 | 23 | 27 |
| Physics | 7 | 3 | 11 | 5 | 4 | 6 | 6 | 7 | 9 | 9 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |
| Earth, atmospheric, and ocean sciences | 0 | 1 | 2 | 3 | 3 | 2 | 5 | 2 | 3 | 2 |
| Mathematics | 5 | 10 | 2 | 6 | 4 | 9 | 4 | 5 | 9 | 4 |
| Computer sciences | 0 | 2 | 1 | 1 | 1 | 5 | 4 | 5 | 7 | 9 |
| Biological sciences | 40 | 45 | 36 | 45 | 36 | 47 | 46 | 63 | 63 | 88 |
| Agricultural sciences | 7 | 7 | 8 | 6 | 9 | 6 | 6 | 5 | 10 | 9 |
| Psychology | 104 | 88 | 101 | 96 | 111 | 126 | 101 | 117 | 112 | 144 |
| Social sciences | 84 | 64 | 77 | 91 | 80 | 101 | 103 | 108 | 106 | 121 |
| Non-S&E, total | 555 | 526 | 543 | 524 | 609 | 641 | 646 | 733 | 708 | 819 |
| Health | 17 | 25 | 26 | 24 | 25 | 35 | 35 | 52 | 41 | 55 |
| Humanities[1] | 58 | 65 | 67 | 63 | 69 | 84 | 84 | 82 | 94 | 96 |
| Education | 423 | 383 | 373 | 390 | 456 | 436 | 465 | 514 | 484 | 566 |
| Professional/other | 57 | 53 | 77 | 47 | 59 | 86 | 62 | 85 | 89 | 102 |
| Grand total, all fields | 830 | 771 | 818 | 821 | 900 | 1,004 | 968 | 1,108 | 1,095 | 1,287 |
| | U.S. citizens, Hispanic | | | | | | | | | |
| Science and engineering, total | 279 | 308 | 331 | 313 | 390 | 410 | 433 | 444 | 463 | 486 |
| Engineering, total | 25 | 24 | 43 | 33 | 39 | 48 | 57 | 56 | 49 | 61 |
| Chemical | 4 | 7 | 3 | 5 | 7 | 10 | 10 | 10 | 5 | 12 |
| Civil | 3 | 1 | 10 | 4 | 6 | 5 | 6 | 7 | 7 | 7 |
| Electrical | 7 | 4 | 10 | 10 | 9 | 11 | 14 | 16 | 16 | 14 |
| Mechanical | 3 | 4 | 5 | 3 | 3 | 8 | 10 | 3 | 7 | 5 |
| Other engineering | 8 | 8 | 15 | 11 | 14 | 14 | 17 | 20 | 14 | 23 |
| Sciences, total | 254 | 284 | 288 | 280 | 351 | 362 | 376 | 388 | 414 | 425 |
| Physical sciences, total | 36 | 48 | 58 | 52 | 63 | 54 | 58 | 65 | 75 | 61 |
| Astronomy | 1 | 0 | 2 | 1 | 2 | 1 | 4 | 1 | 2 | 3 |
| Chemistry | 24 | 40 | 44 | 40 | 50 | 39 | 34 | 43 | 49 | 38 |
| Physics | 10 | 8 | 12 | 11 | 11 | 14 | 20 | 21 | 24 | 20 |
| Other physical sciences | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 4 | 3 | 7 | 6 | 11 | 12 | 13 | 8 | 7 | 7 |
| Mathematics | 9 | 9 | 3 | 8 | 7 | 6 | 10 | 9 | 12 | 12 |
| Computer sciences | 4 | 4 | 2 | 4 | 4 | 11 | 7 | 5 | 5 | 6 |
| Biological sciences | 52 | 52 | 61 | 58 | 73 | 79 | 90 | 93 | 111 | 104 |
| Agricultural sciences | 7 | 12 | 13 | 12 | 14 | 7 | 9 | 14 | 16 | 10 |
| Psychology | 82 | 92 | 89 | 87 | 100 | 113 | 122 | 120 | 128 | 137 |
| Social sciences | 60 | 64 | 55 | 53 | 79 | 80 | 67 | 74 | 60 | 88 |
| Non-S&E, total | 293 | 309 | 264 | 269 | 331 | 321 | 345 | 390 | 421 | 430 |
| Health | 12 | 11 | 11 | 10 | 17 | 12 | 12 | 19 | 20 | 29 |
| Humanities[1] | 68 | 89 | 86 | 77 | 104 | 105 | 98 | 122 | 129 | 122 |
| Education | 190 | 185 | 151 | 158 | 179 | 175 | 200 | 213 | 226 | 232 |
| Professional/other | 23 | 24 | 16 | 24 | 31 | 29 | 35 | 36 | 46 | 47 |
| Grand total, all fields | 572 | 617 | 595 | 582 | 721 | 731 | 778 | 834 | 884 | 916 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, Puerto Rican | | | | | | | | | |
| Science and engineering, total | 74 | 86 | 96 | 93 | 115 | 99 | 120 | 112 | 131 | 137 |
| Engineering, total | 11 | 4 | 13 | 7 | 6 | 9 | 13 | 10 | 10 | 13 |
| Chemical | 2 | 1 | 0 | 1 | 2 | 2 | 3 | 2 | 2 | 4 |
| Civil | 1 | 0 | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Electrical | 4 | 2 | 2 | 1 | 2 | 0 | 3 | 5 | 3 | 3 |
| Mechanical | 0 | 0 | 1 | 3 | 0 | 2 | 1 | 1 | 1 | 1 |
| Other engineering | 4 | 1 | 4 | 1 | 1 | 4 | 5 | 1 | 3 | 4 |
| Sciences, total | 63 | 82 | 83 | 86 | 109 | 90 | 107 | 102 | 121 | 124 |
| Physical sciences, total | 9 | 26 | 23 | 20 | 24 | 17 | 20 | 17 | 26 | 21 |
| Astronomy | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 |
| Chemistry | 5 | 26 | 19 | 16 | 20 | 14 | 14 | 14 | 19 | 17 |
| Physics | 4 | 0 | 4 | 3 | 3 | 3 | 5 | 3 | 7 | 3 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 1 | 0 | 0 | 0 | 5 | 0 | 3 | 1 | 0 | 2 |
| Mathematics | 3 | 6 | 1 | 4 | 2 | 0 | 2 | 1 | 1 | 1 |
| Computer sciences | 2 | 1 | 0 | 0 | 2 | 3 | 1 | 1 | 4 | 0 |
| Biological sciences | 12 | 18 | 20 | 18 | 24 | 23 | 27 | 27 | 28 | 30 |
| Agricultural sciences | 4 | 6 | 2 | 7 | 5 | 0 | 3 | 10 | 5 | 3 |
| Psychology | 17 | 15 | 26 | 21 | 26 | 20 | 35 | 24 | 43 | 44 |
| Social sciences | 15 | 10 | 11 | 16 | 21 | 27 | 16 | 21 | 14 | 23 |
| Non-S&E, total | 64 | 93 | 78 | 83 | 95 | 92 | 109 | 120 | 126 | 132 |
| Health | 4 | 3 | 4 | 4 | 6 | 3 | 4 | 3 | 6 | 12 |
| Humanities[1] | 11 | 29 | 23 | 22 | 28 | 30 | 22 | 36 | 38 | 30 |
| Education | 45 | 52 | 44 | 52 | 56 | 52 | 76 | 70 | 68 | 69 |
| Professional/other | 4 | 9 | 7 | 5 | 5 | 7 | 7 | 11 | 14 | 21 |
| Grand total, all fields | 138 | 179 | 174 | 176 | 210 | 191 | 229 | 232 | 257 | 269 |
| | U.S. citizens, Mexican American | | | | | | | | | |
| Science and engineering, total | 76 | 75 | 83 | 82 | 96 | 117 | 110 | 103 | 134 | 138 |
| Engineering, total | 5 | 6 | 8 | 3 | 12 | 14 | 10 | 10 | 14 | 14 |
| Chemical | 1 | 1 | 0 | 1 | 2 | 4 | 1 | 1 | 1 | 3 |
| Civil | 1 | 1 | 0 | 1 | 2 | 2 | 2 | 0 | 1 | 3 |
| Electrical | 1 | 0 | 1 | 2 | 4 | 3 | 3 | 2 | 4 | 3 |
| Mechanical | 2 | 1 | 1 | 0 | 2 | 3 | 2 | 0 | 2 | 1 |
| Other engineering | 0 | 3 | 6 | 6 | 2 | 2 | 2 | 7 | 6 | 4 |
| Sciences, total | 71 | 69 | 75 | 72 | 84 | 103 | 100 | 93 | 120 | 124 |
| Physical sciences, total | 12 | 9 | 11 | 11 | 11 | 15 | 9 | 9 | 20 | 13 |
| Astronomy | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Chemistry | 10 | 4 | 9 | 10 | 11 | 12 | 6 | 6 | 16 | 8 |
| Physics | 2 | 5 | 1 | 1 | 0 | 3 | 3 | 3 | 3 | 4 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 0 | 2 | 4 | 1 | 2 | 4 | 6 | 1 | 4 | 3 |
| Mathematics | 3 | 0 | 0 | 1 | 3 | 3 | 3 | 2 | 4 | 5 |
| Computer sciences | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 3 |
| Biological sciences | 9 | 9 | 10 | 11 | 20 | 23 | 21 | 22 | 29 | 25 |
| Agricultural sciences | 2 | 3 | 1 | 3 | 6 | 1 | 4 | 2 | 5 | 3 |
| Psychology | 29 | 27 | 28 | 30 | 25 | 34 | 36 | 40 | 38 | 47 |
| Social sciences | 16 | 18 | 21 | 15 | 17 | 23 | 19 | 17 | 20 | 25 |
| Non-S&E, total | 108 | 99 | 93 | 78 | 83 | 99 | 97 | 127 | 156 | 136 |
| Health | 3 | 3 | 3 | 4 | 7 | 3 | 5 | 7 | 3 | 8 |
| Humanities[1] | 19 | 17 | 20 | 21 | 17 | 23 | 22 | 34 | 39 | 33 |
| Education | 80 | 72 | 63 | 48 | 49 | 64 | 58 | 73 | 100 | 90 |
| Professional/other | 6 | 7 | 7 | 5 | 10 | 9 | 12 | 13 | 14 | 5 |
| Grand total, all fields | 184 | 174 | 176 | 160 | 179 | 216 | 207 | 230 | 290 | 274 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, other Hispanic | | | | | | | | | |
| Science and engineering, total | 129 | 147 | 152 | 138 | 179 | 194 | 203 | 229 | 198 | 211 |
| Engineering, total | 9 | 14 | 22 | 16 | 21 | 25 | 34 | 36 | 25 | 34 |
| Chemical | 1 | 5 | 3 | 3 | 3 | 4 | 6 | 7 | 2 | 5 |
| Civil | 1 | 0 | 4 | 2 | 3 | 2 | 3 | 6 | 5 | 3 |
| Electrical | 2 | 2 | 7 | 7 | 3 | 8 | 8 | 9 | 9 | 8 |
| Mechanical | 1 | 3 | 3 | 0 | 1 | 3 | 7 | 2 | 4 | 3 |
| Other engineering | 4 | 4 | 5 | 4 | 11 | 8 | 10 | 12 | 5 | 15 |
| Sciences, total | 120 | 133 | 130 | 122 | 158 | 169 | 169 | 193 | 173 | 177 |
| Physical sciences, total | 15 | 13 | 24 | 21 | 28 | 22 | 29 | 39 | 29 | 27 |
| Astronomy | 1 | 0 | 1 | 0 | 1 | 1 | 3 | 1 | 1 | 1 |
| Chemistry | 9 | 10 | 16 | 14 | 19 | 13 | 14 | 23 | 14 | 13 |
| Physics | 4 | 3 | 7 | 7 | 8 | 8 | 12 | 15 | 14 | 13 |
| Other physical sciences | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 3 | 1 | 3 | 5 | 4 | 8 | 4 | 6 | 3 | 2 |
| Mathematics | 3 | 3 | 2 | 3 | 2 | 3 | 5 | 6 | 7 | 6 |
| Computer sciences | 2 | 2 | 2 | 4 | 2 | 8 | 4 | 4 | 1 | 3 |
| Biological sciences | 31 | 25 | 31 | 29 | 29 | 33 | 42 | 44 | 54 | 49 |
| Agricultural sciences | 1 | 3 | 10 | 2 | 3 | 6 | 2 | 2 | 6 | 4 |
| Psychology | 36 | 50 | 35 | 36 | 49 | 59 | 51 | 56 | 47 | 46 |
| Social sciences | 29 | 36 | 23 | 22 | 41 | 30 | 32 | 36 | 26 | 40 |
| Non-S&E, total | 121 | 117 | 93 | 108 | 153 | 130 | 139 | 143 | 139 | 162 |
| Health | 5 | 5 | 4 | 2 | 4 | 6 | 3 | 9 | 11 | 9 |
| Humanities[1] | 38 | 43 | 43 | 34 | 59 | 52 | 54 | 52 | 52 | 59 |
| Education | 65 | 61 | 44 | 58 | 74 | 59 | 66 | 70 | 58 | 73 |
| Professional/other | 13 | 8 | 2 | 14 | 16 | 13 | 16 | 12 | 18 | 21 |
| Grand total, all fields | 250 | 264 | 245 | 246 | 332 | 324 | 342 | 372 | 337 | 373 |
| | U.S. citizens, white | | | | | | | | | |
| Science and engineering, total | 11,749 | 11,612 | 12,004 | 12,049 | 12,694 | 12,839 | 12,851 | 13,209 | 13,356 | 13,350 |
| Engineering, total | 1,229 | 1,331 | 1,531 | 1,583 | 1,690 | 1,707 | 1,750 | 1,892 | 1,886 | 1,952 |
| Chemical | 216 | 252 | 309 | 328 | 299 | 300 | 267 | 282 | 246 | 242 |
| Civil | 124 | 140 | 162 | 163 | 162 | 143 | 142 | 147 | 181 | 175 |
| Electrical | 293 | 256 | 324 | 360 | 413 | 430 | 457 | 507 | 503 | 538 |
| Mechanical | 181 | 203 | 225 | 218 | 261 | 244 | 300 | 303 | 316 | 315 |
| Other engineering | 415 | 480 | 511 | 514 | 555 | 590 | 584 | 653 | 640 | 682 |
| Sciences, total | 10,520 | 10,281 | 10,473 | 10,466 | 11,004 | 11,132 | 11,101 | 11,317 | 11,470 | 11,398 |
| Physical sciences, total | 1,834 | 1,902 | 1,900 | 1,777 | 1,939 | 1,896 | 1,917 | 1,848 | 1,944 | 1,844 |
| Astronomy | 78 | 68 | 90 | 73 | 86 | 81 | 91 | 97 | 94 | 109 |
| Chemistry | 1,183 | 1,243 | 1,236 | 1,167 | 1,249 | 1,201 | 1,192 | 1,119 | 1,139 | 1,063 |
| Physics | 557 | 577 | 556 | 526 | 586 | 601 | 616 | 623 | 698 | 659 |
| Other physical sciences | 16 | 14 | 18 | 11 | 18 | 13 | 18 | 9 | 13 | 13 |
| Earth, atmospheric, and ocean sciences | 382 | 381 | 462 | 484 | 488 | 546 | 469 | 440 | 486 | 452 |
| Mathematics | 326 | 295 | 308 | 351 | 346 | 403 | 407 | 445 | 455 | 507 |
| Computer sciences | 177 | 215 | 253 | 296 | 325 | 330 | 363 | 379 | 375 | 419 |
| Biological sciences | 2,840 | 2,697 | 2,878 | 2,832 | 2,909 | 2,965 | 2,998 | 3,056 | 3,005 | 3,021 |
| Agricultural sciences | 543 | 541 | 493 | 560 | 582 | 527 | 475 | 426 | 471 | 456 |
| Psychology | 2,510 | 2,476 | 2,404 | 2,423 | 2,599 | 2,616 | 2,580 | 2,749 | 2,695 | 2,666 |
| Social sciences | 1,908 | 1,774 | 1,775 | 1,743 | 1,816 | 1,849 | 1,892 | 1,974 | 2,039 | 2,033 |
| Non-S&E, total | 8,891 | 8,856 | 8,783 | 8,845 | 9,478 | 9,580 | 10,034 | 10,028 | 10,449 | 10,461 |
| Health | 508 | 536 | 596 | 675 | 648 | 691 | 714 | 782 | 846 | 807 |
| Humanities[1] | 2,325 | 2,269 | 2,375 | 2,288 | 2,649 | 2,685 | 2,927 | 2,969 | 3,149 | 3,373 |
| Education | 4,852 | 4,758 | 4,596 | 4,576 | 4,843 | 4,814 | 4,981 | 4,875 | 4,980 | 4,729 |
| Professional/other | 1,206 | 1,293 | 1,216 | 1,306 | 1,338 | 1,390 | 1,412 | 1,402 | 1,474 | 1,552 |
| Grand total, all fields | 20,640 | 20,468 | 20,787 | 20,894 | 22,172 | 22,419 | 22,885 | 23,237 | 23,805 | 23,811 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, male | | | | | | | | | |
| Science and engineering, total | 8,860 | 8,801 | 9,014 | 8,820 | 9,274 | 9,387 | 9,396 | 9,426 | 9,460 | 9,586 |
| Engineering, total | 1,241 | 1,409 | 1,602 | 1,615 | 1,709 | 1,807 | 1,826 | 1,932 | 1,872 | 2,008 |
| Chemical | 205 | 250 | 312 | 222 | 288 | 297 | 250 | 265 | 236 | 221 |
| Civil | 129 | 153 | 174 | 151 | 151 | 152 | 144 | 138 | 155 | 170 |
| Electrical | 306 | 306 | 370 | 411 | 446 | 510 | 542 | 573 | 570 | 604 |
| Mechanical | 196 | 231 | 240 | 240 | 276 | 263 | 329 | 314 | 327 | 351 |
| Other engineering | 405 | 469 | 506 | 491 | 548 | 585 | 561 | 642 | 584 | 662 |
| Sciences, total | 7,619 | 7,392 | 7,412 | 7,205 | 7,565 | 7,580 | 7,570 | 7,494 | 7,588 | 7,578 |
| Physical sciences, total | 1,695 | 1,733 | 1,750 | 1,582 | 1,747 | 1,707 | 1,710 | 1,647 | 1,745 | 1,617 |
| Astronomy | 82 | 63 | 84 | 67 | 76 | 77 | 87 | 86 | 83 | 99 |
| Chemistry | 1,044 | 1,085 | 1,073 | 956 | 1,046 | 1,014 | 971 | 920 | 946 | 828 |
| Physics | 556 | 571 | 582 | 549 | 613 | 605 | 636 | 633 | 703 | 677 |
| Other physical sciences | 13 | 14 | 11 | 10 | 12 | 11 | 16 | 8 | 13 | 13 |
| Earth, atmospheric, and ocean sciences | 331 | 328 | 384 | 404 | 398 | 444 | 368 | 351 | 382 | 366 |
| Mathematics | 297 | 280 | 283 | 300 | 293 | 370 | 357 | 372 | 382 | 422 |
| Computer sciences | 165 | 193 | 245 | 266 | 268 | 305 | 353 | 343 | 349 | 368 |
| Biological sciences | 2,049 | 1,904 | 1,960 | 1,927 | 1,958 | 2,021 | 1,998 | 1,999 | 1,928 | 2,005 |
| Agricultural sciences | 463 | 468 | 420 | 450 | 483 | 436 | 377 | 333 | 387 | 380 |
| Psychology | 1,330 | 1,259 | 1,190 | 1,146 | 1,195 | 1,106 | 1,176 | 1,200 | 1,143 | 1,090 |
| Social sciences | 1,289 | 1,227 | 1,163 | 1,130 | 1,223 | 1,191 | 1,231 | 1,249 | 1,272 | 1,330 |
| Non-S&E, total | 4,778 | 4,773 | 4,711 | 4,575 | 4,892 | 4,992 | 5,105 | 5,071 | 5,270 | 5,323 |
| Health | 157 | 207 | 196 | 207 | 221 | 221 | 203 | 226 | 283 | 263 |
| Humanities[1] | 1,396 | 1,371 | 1,450 | 1,390 | 1,580 | 1,606 | 1,728 | 1,699 | 1,836 | 1,937 |
| Education | 2,420 | 2,359 | 2,235 | 2,132 | 2,273 | 2,250 | 2,246 | 2,265 | 2,199 | 2,107 |
| Professional/other | 805 | 836 | 830 | 846 | 818 | 915 | 928 | 881 | 952 | 1,016 |
| Grand total, all fields | 13,638 | 13,574 | 13,725 | 13,395 | 14,166 | 14,379 | 14,501 | 14,497 | 14,730 | 14,909 |
| | U.S. citizens, male, American Indian/Alaskan Native | | | | | | | | | |
| Science and engineering, total | 33 | 32 | 29 | 33 | 25 | 37 | 42 | 25 | 40 | 44 |
| Engineering, total | 5 | 7 | 4 | 5 | 4 | 4 | 8 | 2 | 4 | 10 |
| Chemical | 0 | 1 | 2 | 1 | 0 | 0 | 1 | 1 | 1 | 2 |
| Civil | 0 | 1 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 0 |
| Electrical | 2 | 3 | [illegible] | [illegible] | 0 | 1 | 3 | 0 | 1 | 2 |
| Mechanical | 2 | 1 | [illegible] | [illegible] | 0 | 1 | 1 | 0 | 0 | 2 |
| Other engineering | 1 | 1 | 0 | 4 | 2 | 1 | 3 | 1 | 2 | 4 |
| Sciences, total | 28 | 25 | 25 | 28 | 21 | 33 | 34 | 23 | 36 | 34 |
| Physical sciences, total | 3 | 5 | 5 | 10 | 3 | 8 | 10 | 3 | 5 | 6 |
| Astronomy | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 |
| Chemistry | 3 | 4 | 5 | 5 | 3 | 7 | 4 | 1 | 4 | 4 |
| Physics | 0 | 1 | 0 | 3 | 0 | 1 | 6 | 1 | 1 | 2 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 1 | 0 | 1 | 4 | 0 | 2 | 1 | 4 | 1 | 0 |
| Mathematics | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 1 | 2 | 1 |
| Computer sciences | 0 | 2 | 1 | 1 | 0 | 1 | 2 | 0 | 0 | 0 |
| Biological sciences | 11 | 7 | 4 | 4 | 3 | 6 | 8 | 5 | 11 | 10 |
| Agricultural sciences | 0 | 2 | 4 | 1 | 4 | 4 | 0 | 1 | 1 | 2 |
| Psychology | 4 | 4 | 3 | 3 | 6 | 5 | 6 | 6 | 5 | 6 |
| Social sciences | 9 | 5 | 5 | 5 | 4 | 7 | 6 | 3 | 11 | 9 |
| Non-S&E, total | 25 | 30 | 23 | 16 | 27 | 37 | 40 | 35 | 31 | 37 |
| Health | 0 | 1 | 1 | 0 | 1 | 3 | 3 | 0 | 1 | 2 |
| Humanities[1] | 5 | 6 | 0 | 2 | 4 | 3 | 12 | 7 | 12 | 10 |
| Education | 16 | 18 | 18 | 10 | 16 | 29 | 20 | 21 | 10 | 16 |
| Professional/other | 4 | 5 | 4 | 4 | 6 | 2 | 5 | 7 | 8 | 9 |
| Grand total, all fields | 58 | 62 | 52 | 49 | 52 | 74 | 82 | 60 | 71 | 81 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, male, Asian | | | | | | | | | |
| Science and engineering, total | 286 | 323 | 337 | 371 | 359 | 407 | 450 | 479 | 492 | 574 |
| Engineering, total | 74 | 124 | 132 | 151 | 137 | 160 | 181 | 193 | 171 | 203 |
| Chemical | 15 | 21 | 29 | 31 | 19 | 20 | 18 | 22 | 20 | 16 |
| Civil | 8 | 13 | 8 | 13 | 7 | 10 | 11 | 10 | 7 | 13 |
| Electrical | 18 | 39 | 42 | 43 | 47 | 64 | 83 | 79 | 86 | 80 |
| Mechanical | 10 | 25 | 22 | 24 | 25 | 23 | 33 | 33 | 23 | 35 |
| Other engineering | 23 | 26 | 31 | 40 | 39 | 43 | 36 | 49 | 35 | 59 |
| Sciences, total | 212 | 199 | 205 | 220 | 222 | 247 | 269 | 286 | 321 | 371 |
| Physical sciences, total | 56 | 52 | 52 | 61 | 67 | 66 | 72 | 79 | 88 | 99 |
| Astronomy | 4 | 1 | 2 | 0 | 1 | 0 | 1 | 2 | 4 | 3 |
| Chemistry | 40 | 36 | 34 | 34 | 41 | 48 | 36 | 39 | 43 | 52 |
| Physics | 12 | 15 | 16 | 28 | 25 | 18 | 35 | 38 | 40 | 44 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Earth, atmospheric, and ocean sciences | 5 | 8 | 6 | 10 | 3 | 4 | 11 | 4 | 6 | 7 |
| Mathematics | 12 | 14 | 13 | 12 | 8 | 18 | 17 | 18 | 14 | 18 |
| Computer sciences | 12 | 6 | 19 | 14 | 9 | 25 | 34 | 23 | 29 | 34 |
| Biological sciences | 73 | 61 | 64 | 75 | 77 | 91 | 71 | 102 | 114 | 128 |
| Agricultural sciences | 10 | 14 | 5 | 4 | 9 | 6 | 8 | 5 | 12 | 5 |
| Psychology | 15 | 15 | 13 | 20 | 19 | 13 | 17 | 20 | 20 | 31 |
| Social sciences | 29 | 29 | 33 | 23 | 30 | 24 | 39 | 35 | 38 | 49 |
| Non-S&E, total | 63 | 46 | 77 | 75 | 68 | 76 | 80 | 72 | 99 | 96 |
| Health | 8 | 11 | 9 | 6 | 12 | 10 | 9 | 7 | 15 | 7 |
| Humanities[1] | 8 | 8 | 16 | 24 | 18 | 17 | 22 | 17 | 31 | 28 |
| Education | 26 | 18 | 34 | 23 | 19 | 26 | 21 | 32 | 28 | 27 |
| Professional/other | 21 | 9 | 18 | 22 | 19 | 23 | 28 | 16 | 25 | 34 |
| Grand total, all fields | 349 | 369 | 414 | 446 | 427 | 483 | 530 | 551 | 591 | 670 |
| | U.S. citizens, male, black | | | | | | | | | |
| Science and engineering, total | 131 | 123 | 150 | 147 | 153 | 186 | 161 | 179 | 190 | 217 |
| Engineering, total | 10 | 11 | 15 | 21 | 23 | 35 | 26 | 30 | 31 | 41 |
| Chemical | 0 | 4 | 3 | 1 | 3 | 3 | 7 | 1 | 2 | 1 |
| Civil | 1 | 1 | 0 | 2 | 0 | 6 | 0 | 1 | 6 | 4 |
| Electrical | 2 | 0 | 5 | 8 | 6 | 14 | 10 | 11 | 11 | 16 |
| Mechanical | 2 | 2 | 0 | 5 | 5 | 2 | 3 | 2 | 3 | 8 |
| Other engineering | 5 | 4 | 7 | 5 | 9 | 10 | 6 | 15 | 9 | 12 |
| Sciences, total | 121 | 112 | 135 | 126 | 130 | 151 | 135 | 149 | 159 | 176 |
| Physical sciences, total | 17 | 13 | 22 | 18 | 13 | 20 | 16 | 20 | 21 | 20 |
| Astronomy | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 1 |
| Chemistry | 11 | 9 | 12 | 13 | 8 | 14 | 9 | 11 | 15 | 11 |
| Physics | 6 | 2 | 10 | 5 | 4 | 6 | 6 | 7 | 5 | 8 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| Earth, atmospheric, and ocean sciences | 0 | 0 | 2 | 2 | 1 | 1 | 4 | 2 | 2 | 2 |
| Mathematics | 2 | 8 | 2 | 4 | 3 | 5 | 4 | 4 | 6 | 3 |
| Computer sciences | 0 | 1 | 1 | 0 | 1 | 1 | 3 | 2 | 5 | 5 |
| Biological sciences | 21 | 23 | 18 | 22 | 16 | 22 | 24 | 33 | 22 | 51 |
| Agricultural sciences | 4 | 4 | 4 | 5 | 8 | 5 | 5 | 3 | 7 | 4 |
| Psychology | 37 | 30 | 46 | 35 | 42 | 42 | 25 | 43 | 40 | 36 |
| Social sciences | 40 | 33 | 40 | 40 | 46 | 55 | 54 | 42 | 56 | 55 |
| Non-S&E, total | 194 | 195 | 167 | 180 | 198 | 231 | 233 | 260 | 219 | 265 |
| Health | 3 | 7 | 3 | 4 | 7 | 13 | 11 | 15 | 11 | 14 |
| Humanities[1] | 24 | 28 | 35 | 29 | 35 | 37 | 42 | 44 | 42 | 42 |
| Education | 142 | 136 | 104 | 129 | 139 | 149 | 147 | 168 | 131 | 171 |
| Professional/other | 25 | 24 | 25 | 18 | 17 | 32 | 33 | 33 | 35 | 38 |
| Grand total, all fields | 325 | 318 | 317 | 327 | 351 | 417 | 394 | 439 | 409 | 482 |

See explanatory information, if any, and SOURCE at end of table.

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## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, male, Hispanic | | | | | | | | | |
| Science and engineering, total | 177 | 182 | 202 | 180 | 237 | 241 | 263 | 256 | 262 | 282 |
| Engineering, total | 22 | 21 | 37 | 27 | 33 | 38 | 46 | 45 | 44 | 51 |
| Chemical | 2 | 6 | 3 | 3 | 7 | 6 | 8 | 7 | 5 | 10 |
| Civil | 3 | 1 | 9 | 4 | 5 | 3 | 5 | 5 | 5 | 6 |
| Electrical | 6 | 4 | 8 | 9 | 8 | 11 | 12 | 13 | 16 | 13 |
| Mechanical | 3 | 4 | 4 | 2 | 2 | 6 | 8 | 3 | 6 | 5 |
| Other engineering | 8 | 6 | 13 | 9 | 11 | 12 | 13 | 17 | 12 | 17 |
| Sciences, total | 155 | 161 | 165 | 153 | 204 | 203 | 217 | 211 | 218 | 231 |
| Physical sciences, total | 28 | 33 | 45 | 37 | 41 | 44 | 43 | 49 | 58 | 42 |
| Astronomy | 0 | 0 | 2 | 1 | 2 | 1 | 3 | 1 | 2 | 1 |
| Chemistry | 18 | 27 | 33 | 25 | 30 | 31 | 23 | 29 | 36 | 24 |
| Physics | 9 | 6 | 10 | 11 | 9 | 12 | 17 | 19 | 20 | 17 |
| Other physical sciences | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 3 | 3 | 3 | 4 | 7 | 11 | 9 | 6 | 5 | 4 |
| Mathematics | 6 | 7 | 3 | 4 | 4 | 3 | 7 | 8 | 9 | 9 |
| Computer sciences | 4 | 4 | 2 | 1 | 3 | 10 | 6 | 4 | 5 | 2 |
| Biological sciences | 29 | 33 | 39 | 43 | 45 | 44 | 55 | 47 | 61 | 68 |
| Agricultural sciences | 4 | 8 | 12 | 9 | 11 | 6 | 7 | 9 | 9 | 9 |
| Psychology | 43 | 31 | 36 | 27 | 47 | 47 | 52 | 42 | 42 | 43 |
| Social sciences | 38 | 42 | 25 | 28 | 46 | 38 | 38 | 46 | 29 | 54 |
| Non-S&E, total | 125 | 150 | 119 | 127 | 143 | 129 | 147 | 167 | 176 | 178 |
| Health | 5 | 3 | 6 | 3 | 2 | 4 | 4 | 4 | 3 | 15 |
| Humanities[1] | 34 | 51 | 38 | 41 | 44 | 49 | 51 | 55 | 67 | 59 |
| Education | 69 | 82 | 65 | 68 | 80 | 63 | 74 | 88 | 76 | 82 |
| Professional/other | 17 | 14 | 10 | 15 | 17 | 13 | 18 | 20 | 30 | 22 |
| Grand total, all fields | 302 | 332 | 321 | 307 | 380 | 370 | 410 | 423 | 438 | 460 |
| | U.S. citizens, male, Puerto Rican | | | | | | | | | |
| Science and engineering, total | 49 | 53 | 58 | 54 | 67 | 52 | 71 | 70 | 72 | 74 |
| Engineering, total | 9 | 3 | 11 | 6 | 4 | 7 | 10 | 8 | 10 | 11 |
| Chemical | 0 | 1 | 0 | 1 | 2 | 1 | 3 | 2 | 2 | 3 |
| Civil | 1 | 0 | 5 | 1 | 1 | 1 | 1 | 0 | 1 | 1 |
| Electrical | 4 | 2 | 2 | 1 | 1 | 0 | 2 | 4 | 3 | 3 |
| Mechanical | 0 | 0 | 1 | 2 | 0 | 2 | 0 | 1 | 1 | 1 |
| Other engineering | 4 | 0 | 3 | 1 | 0 | 3 | 4 | 1 | 3 | 3 |
| Sciences, total | 40 | 50 | 47 | 48 | 63 | 45 | 61 | 62 | 62 | 63 |
| Physical sciences, total | 8 | 17 | 16 | 16 | 14 | 11 | 14 | 12 | 19 | 12 |
| Astronomy | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| Chemistry | 4 | 17 | 13 | 12 | 10 | 9 | 9 | 9 | 13 | 9 |
| Physics | 4 | 0 | 3 | 3 | 3 | 2 | 4 | 3 | 6 | 3 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 1 | 0 | 0 | 0 | 4 | 0 | 3 | 1 | 0 | 1 |
| Mathematics | 2 | 4 | 1 | 1 | 2 | 0 | 1 | 1 | 1 | 0 |
| Computer sciences | 2 | 1 | 0 | 0 | 2 | 3 | 1 | 0 | 4 | 0 |
| Biological sciences | 9 | 11 | 10 | 14 | 14 | 12 | 16 | 16 | 14 | 21 |
| Agricultural sciences | 3 | 3 | 2 | 5 | 4 | 0 | 3 | 7 | 2 | 3 |
| Psychology | 8 | 8 | 12 | 5 | 11 | 6 | 16 | 13 | 13 | 13 |
| Social sciences | 7 | 6 | 6 | 7 | 12 | 13 | 7 | 12 | 9 | 13 |
| Non-S&E, total | 28 | 41 | 30 | 32 | 37 | 32 | 39 | 51 | 51 | 46 |
| Health | 2 | 0 | 2 | 1 | 0 | 2 | 3 | 0 | 2 | 7 |
| Humanities[1] | 4 | 18 | 9 | 10 | 8 | 11 | 10 | 18 | 16 | 14 |
| Education | 20 | 19 | 15 | 17 | 26 | 16 | 23 | 25 | 23 | 19 |
| Professional/other | 2 | 4 | 4 | 4 | 3 | 3 | 3 | 8 | 10 | 6 |
| Grand total, all fields | 77 | 94 | 88 | 86 | 104 | 84 | 110 | 121 | 123 | 120 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, male, Mexican American | | | | | | | | | |
| Science and engineering, total | 50 | 48 | 51 | 48 | 61 | 76 | 72 | 61 | 80 | 79 |
| Engineering, total | 5 | 5 | 8 | 7 | 10 | 12 | 10 | 9 | 12 | 13 |
| Chemical | 1 | 1 | 0 | 0 | 2 | 3 | 1 | 1 | 1 | 2 |
| Civil | 1 | 1 | 0 | 1 | 1 | 2 | 2 | 0 | 1 | 3 |
| Electrical | 1 | 0 | 1 | 1 | 4 | 3 | 3 | 2 | 4 | 3 |
| Mechanical | 2 | 1 | 1 | 0 | 1 | 2 | 2 | 0 | 2 | 1 |
| Other engineering | 0 | 2 | 6 | 5 | 2 | 2 | 2 | 6 | 4 | 4 |
| Sciences, total | 45 | 43 | 43 | 41 | 51 | 64 | 62 | 52 | 68 | 66 |
| Physical sciences, total | 9 | 8 | 10 | 9 | 8 | 12 | 7 | 7 | 17 | 9 |
| Astronomy | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Chemistry | 8 | 4 | 8 | 8 | 8 | 10 | 4 | 5 | 14 | 6 |
| Physics | 1 | 4 | 1 | 1 | 0 | 2 | 3 | 2 | 2 | 3 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 0 | 2 | 2 | 1 | 1 | 4 | 4 | 1 | 4 | 2 |
| Mathematics | 2 | 0 | 0 | 1 | 1 | 1 | 3 | 2 | 3 | 3 |
| Computer sciences | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 |
| Biological sciences | 3 | 5 | 9 | 8 | 13 | 16 | 10 | 12 | 16 | 16 |
| Agricultural sciences | 0 | 3 | 0 | 3 | 6 | 1 | 3 | 1 | 4 | 2 |
| Psychology | 20 | 11 | 9 | 10 | 11 | 19 | 19 | 16 | 17 | 14 |
| Social sciences | 11 | 13 | 13 | 9 | 11 | 11 | 14 | 13 | 7 | 19 |
| Non-S&E, total | 50 | 55 | 51 | 43 | 48 | 44 | 45 | 56 | 70 | 68 |
| Health | 2 | 1 | 2 | 2 | 1 | 0 | 0 | 2 | 0 | 3 |
| Humanities[1] | 13 | 13 | 11 | 12 | 9 | 11 | 13 | 18 | 22 | 21 |
| Education | 31 | 36 | 33 | 25 | 30 | 27 | 26 | 29 | 37 | 40 |
| Professional/other | 4 | 5 | 5 | 4 | 8 | 6 | 6 | 7 | 11 | 4 |
| Grand total, all fields | 100 | 103 | 102 | 91 | 109 | 120 | 117 | 117 | 150 | 147 |
| | U.S. citizens, male, other Hispanic | | | | | | | | | |
| Science and engineering, total | 78 | 81 | 93 | 78 | 109 | 113 | 120 | 125 | 110 | 129 |
| Engineering, total | 8 | 13 | 18 | 14 | 19 | 19 | 26 | 28 | 22 | 27 |
| Chemical | 1 | 4 | 3 | 2 | 3 | 2 | 4 | 4 | 2 | 5 |
| Civil | 1 | 0 | 4 | 2 | 3 | 0 | 2 | 5 | 3 | 2 |
| Electrical | 1 | 2 | 5 | 7 | 3 | 8 | 7 | 7 | 9 | 7 |
| Mechanical | 1 | 3 | 2 | 0 | 1 | 2 | 6 | 2 | 3 | 3 |
| Other engineering | 4 | 4 | 4 | 3 | 9 | 7 | 7 | 10 | 5 | 10 |
| Sciences, total | 70 | 68 | 75 | 64 | 90 | 94 | 94 | 97 | 88 | 102 |
| Physical sciences, total | 11 | 8 | 19 | 12 | 19 | 21 | 22 | 30 | 22 | 21 |
| Astronomy | 0 | 0 | 1 | 0 | 1 | 1 | 2 | 1 | 1 | 1 |
| Chemistry | 6 | 6 | 12 | 5 | 12 | 12 | 10 | 15 | 9 | 9 |
| Physics | 4 | 2 | 6 | 7 | 6 | 8 | 10 | 14 | 12 | 11 |
| Other physical sciences | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 2 | 1 | 1 | 3 | 2 | 7 | 2 | 4 | 1 | 1 |
| Mathematics | 2 | 3 | 2 | 2 | 1 | 2 | 3 | 5 | 5 | 6 |
| Computer sciences | 2 | 2 | 2 | 1 | 1 | 7 | 3 | 4 | 1 | 1 |
| Biological sciences | 17 | 17 | 20 | 21 | 18 | 16 | 29 | 19 | 31 | 31 |
| Agricultural sciences | 1 | 2 | 10 | 1 | 1 | 5 | 1 | 1 | 3 | 4 |
| Psychology | 15 | 12 | 15 | 12 | 25 | 22 | 17 | 13 | 12 | 16 |
| Social sciences | 20 | 23 | 6 | 12 | 23 | 14 | 17 | 21 | 13 | 22 |
| Non-S&E, total | 47 | 54 | 38 | 52 | 58 | 53 | 63 | 60 | 55 | 64 |
| Health | 1 | 2 | 2 | 0 | 1 | 2 | 1 | 2 | 1 | 5 |
| Humanities[1] | 17 | 20 | 18 | 19 | 27 | 27 | 28 | 19 | 29 | 24 |
| Education | 18 | 27 | 17 | 26 | 24 | 20 | 25 | 34 | 16 | 23 |
| Professional/other | 11 | 5 | 1 | 7 | 6 | 4 | 9 | 5 | 9 | 12 |
| Grand total, all fields | 125 | 135 | 131 | 130 | 167 | 166 | 183 | 185 | 165 | 193 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, male, white | | | | | | | | | |
| Science and engineering, total | 8,028 | 7,900 | 8,088 | 7,881 | 8,291 | 8,237 | 8,293 | 8,368 | 8,355 | 8,317 |
| Engineering, total | 1,104 | 1,199 | 1,376 | 1,371 | 1,474 | 1,486 | 1,523 | 1,644 | 1,595 | 1,656 |
| Chemical | 187 | 212 | 268 | 280 | 254 | 262 | 211 | 233 | 201 | 186 |
| Civil | 116 | 132 | 151 | 131 | 135 | 128 | 125 | 122 | 137 | 145 |
| Electrical | 274 | 244 | 304 | 337 | 374 | 397 | 419 | 462 | 453 | 479 |
| Mechanical | 169 | 193 | 210 | 201 | 242 | 217 | 281 | 272 | 291 | 291 |
| Other engineering | 358 | 418 | 443 | 422 | 469 | 482 | 487 | 555 | 513 | 555 |
| Sciences, total | 6,924 | 6,701 | 6,712 | 6,510 | 6,817 | 6,751 | 6,770 | 6,724 | 6,760 | 6,661 |
| Physical sciences, total | 1,540 | 1,580 | 1,570 | 1,412 | 1,571 | 1,524 | 1,535 | 1,473 | 1,557 | 1,419 |
| Astronomy | 75 | 59 | 78 | 62 | 70 | 75 | 81 | 78 | 75 | 91 |
| Chemistry | 942 | 982 | 964 | 857 | 942 | 896 | 885 | 828 | 843 | 731 |
| Physics | 512 | 526 | 517 | 483 | 547 | 543 | 555 | 560 | 628 | 586 |
| Other physical sciences | 11 | 13 | 11 | 10 | 12 | 10 | 14 | 7 | 11 | 11 |
| Earth, atmospheric, and ocean sciences | 312 | 301 | 363 | 377 | 379 | 409 | 339 | 332 | 366 | 346 |
| Mathematics | 266 | 238 | 253 | 268 | 272 | 324 | 319 | 334 | 344 | 388 |
| Computer sciences | 140 | 172 | 215 | 235 | 248 | 260 | 299 | 307 | 305 | 320 |
| Biological sciences | 1,880 | 1,727 | 1,798 | 1,745 | 1,776 | 1,825 | 1,802 | 1,782 | 1,700 | 1,722 |
| Agricultural sciences | 435 | 437 | 387 | 476 | 441 | 406 | 349 | 314 | 353 | 357 |
| Psychology | 1,216 | 1,159 | 1,078 | 1,049 | 1,059 | 980 | 1,059 | 1,079 | 1,022 | 965 |
| Social sciences | 1,135 | 1,087 | 1,048 | 1,009 | 1,071 | 1,023 | 1,068 | 1,103 | 1,113 | 1,144 |
| Non-S&E, total | 4,286 | 4,269 | 4,257 | 4,106 | 4,399 | 4,442 | 4,535 | 4,484 | 4,697 | 4,686 |
| Health | 133 | 180 | 177 | 191 | 198 | 186 | 171 | 198 | 250 | 222 |
| Humanities[1] | 1,297 | 1,246 | 1,333 | 1,257 | 1,451 | 1,466 | 1,574 | 1,546 | 1,661 | 1,762 |
| Education | 2,129 | 2,071 | 1,987 | 1,882 | 2,000 | 1,963 | 1,963 | 1,944 | 1,936 | 1,798 |
| Professional other | 727 | 772 | 760 | 776 | 750 | 827 | 827 | 796 | 850 | 904 |
| Grand total, all fields | 12,314 | 12,169 | 12,345 | 11,987 | 12,690 | 12,679 | 12,828 | 12,852 | 13,052 | 13,003 |
| | U.S. citizens, female | | | | | | | | | |
| Science and engineering, total | 4,162 | 4,165 | 4,355 | 4,647 | 4,892 | 5,237 | 5,162 | 5,503 | 5,702 | 5,874 |
| Engineering, total | 142 | 149 | 178 | 219 | 248 | 279 | 283 | 296 | 343 | 374 |
| Chemical | 36 | 44 | 46 | 53 | 54 | 51 | 68 | 59 | 57 | 70 |
| Civil | 10 | 9 | 13 | 34 | 29 | 21 | 20 | 30 | 48 | 36 |
| Electrical | 21 | 14 | 28 | 29 | 45 | 44 | 55 | 57 | 64 | 79 |
| Mechanical | 13 | 10 | 16 | 19 | 23 | 34 | 23 | 33 | 32 | 28 |
| Other engineering | 62 | 72 | 75 | 104 | 97 | 129 | 117 | 117 | 142 | 161 |
| Sciences, total | 4,020 | 4,016 | 4,177 | 4,398 | 4,644 | 4,958 | 4,879 | 5,207 | 5,359 | 5,500 |
| Physical sciences, total | 337 | 362 | 369 | 402 | 422 | 412 | 447 | 446 | 453 | 519 |
| Astronomy | 6 | 9 | 13 | 11 | 16 | 7 | 13 | 20 | 20 | 21 |
| Chemistry | 276 | 296 | 305 | 342 | 352 | 336 | 357 | 352 | 345 | 409 |
| Physics | 50 | 56 | 44 | 48 | 47 | 66 | 73 | 71 | 86 | 87 |
| Other physical sciences | 5 | 1 | 7 | 1 | 7 | 3 | 4 | 3 | 2 | 2 |
| Earth, atmospheric, and ocean sciences | 73 | 82 | 109 | 114 | 118 | 148 | 138 | 112 | 125 | 112 |
| Mathematics | 69 | 65 | 59 | 93 | 82 | 93 | 97 | 124 | 122 | 132 |
| Computer sciences | 37 | 50 | 39 | 72 | 80 | 83 | 69 | 82 | 77 | 116 |
| Biological sciences | 1,075 | 1,077 | 1,171 | 1,190 | 1,232 | 1,289 | 1,329 | 1,449 | 1,490 | 1,484 |
| Agricultural sciences | 116 | 116 | 119 | 156 | 147 | 128 | 134 | 124 | 132 | 112 |
| Psychology | 1,437 | 1,488 | 1,478 | 1,537 | 1,724 | 1,847 | 1,724 | 1,869 | 1,910 | 1,978 |
| Social sciences | 876 | 776 | 833 | 834 | 839 | 958 | 941 | 1,001 | 1,050 | 1,047 |
| Non-S&E, total | 5,286 | 5,245 | 5,211 | 5,358 | 5,847 | 5,945 | 6,314 | 6,420 | 6,697 | 6,820 |
| Health | 411 | 399 | 461 | 522 | 500 | 558 | 606 | 653 | 678 | 675 |
| Humanities[1] | 1,132 | 1,138 | 1,159 | 1,140 | 1,319 | 1,369 | 1,483 | 1,575 | 1,649 | 1,808 |
| Education | 3,209 | 3,134 | 3,065 | 3,114 | 3,362 | 3,357 | 3,574 | 3,500 | 3,652 | 3,573 |
| Professional other | 534 | 574 | 526 | 582 | 666 | 661 | 651 | 692 | 718 | 764 |
| Grand total, all fields | 9,448 | 9,410 | 9,566 | 10,005 | 10,739 | 11,182 | 11,476 | 11,923 | 12,399 | 12,694 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, female, American Indian/Alaskan Native | | | | | | | | | |
| Science and engineering, total | 19 | 21 | 15 | 20 | 18 | 19 | 27 | 18 | 24 | 25 |
| Engineering, total | 1 | 0 | 0 | 2 | 0 | 2 | 3 | 0 | 2 | 0 |
| Chemical | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Civil | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| Electrical | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| Mechanical | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other engineering | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 0 |
| Sciences, total | 18 | 21 | 15 | 18 | 18 | 17 | 24 | 18 | 22 | 25 |
| Physical sciences, total | 2 | 2 | 1 | 0 | 0 | 2 | 2 | 2 | 1 | 3 |
| Astronomy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chemistry | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 3 |
| Physics | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 1 | 0 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |
| Mathematics | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Computer sciences | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |
| Biological sciences | 6 | 4 | 2 | 3 | 1 | 4 | 5 | 2 | 5 | 5 |
| Agricultural sciences | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Psychology | 5 | 12 | 4 | 8 | 13 | 8 | 9 | 9 | 7 | 8 |
| Social sciences | 3 | 2 | 5 | 3 | 3 | 2 | 7 | 4 | 8 | 8 |
| Non-S&E, total | 22 | 32 | 27 | 25 | 27 | 37 | 40 | 42 | 47 | 42 |
| Health | 6 | 2 | 4 | 3 | 0 | 2 | 2 | 6 | 5 | 7 |
| Humanities[1] | 1 | 4 | 4 | 5 | 2 | 7 | 6 | 3 | 8 | 8 |
| Education | 10 | 23 | 18 | 15 | 21 | 26 | 30 | 30 | 26 | 24 |
| Professional/other | 5 | 3 | 1 | 2 | 4 | 2 | 2 | 3 | 8 | 3 |
| Grand total, all fields | 41 | 53 | 42 | 45 | 45 | 56 | 67 | 60 | 71 | 67 |
| | U.S. citizens, female, Asian | | | | | | | | | |
| Science and engineering, total | 117 | 124 | 117 | 123 | 129 | 192 | 201 | 233 | 244 | 321 |
| Engineering, total | 6 | 11 | 9 | 23 | 20 | 27 | 33 | 24 | 31 | 52 |
| Chemical | 2 | 3 | 3 | 9 | 7 | 7 | 7 | 4 | 7 | 11 |
| Civil | 0 | 1 | 0 | 2 | 1 | 1 | 1 | 0 | 0 | 2 |
| Electrical | 1 | 2 | 3 | 5 | 4 | 3 | 12 | 7 | 11 | 12 |
| Mechanical | 0 | 0 | 0 | 1 | 2 | 3 | 2 | 1 | 5 | 4 |
| Other engineering | 3 | 5 | 3 | 6 | 6 | 13 | 11 | 12 | 8 | 23 |
| Sciences, total | 111 | 113 | 108 | 100 | 109 | 165 | 168 | 209 | 213 | 269 |
| Physical sciences, total | 20 | 15 | 15 | 13 | 19 | 20 | 36 | 42 | 34 | 49 |
| Astronomy | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 |
| Chemistry | 17 | 13 | 14 | 8 | 13 | 15 | 29 | 37 | 27 | 39 |
| Physics | 2 | 2 | 1 | 5 | 6 | 5 | 6 | 4 | 7 | 9 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 1 | 1 | 2 | 2 | 1 | 3 | 3 | 2 | 1 | 1 |
| Mathematics | 2 | 4 | 4 | 1 | 3 | 5 | 4 | 10 | 4 | 7 |
| Computer sciences | 0 | 4 | 1 | 4 | 1 | 7 | 3 | 4 | 4 | 8 |
| Biological sciences | 52 | 45 | 37 | 47 | 39 | 69 | 63 | 88 | 80 | 101 |
| Agricultural sciences | 2 | 3 | 4 | 3 | 2 | 3 | 5 | 4 | 2 | 5 |
| Psychology | 18 | 24 | 24 | 18 | 25 | 33 | 30 | 32 | 61 | 53 |
| Social sciences | 16 | 17 | 21 | 12 | 19 | 25 | 24 | 27 | 27 | 45 |
| Non-S&E, total | 67 | 50 | 83 | 64 | 85 | 114 | 115 | 105 | 114 | 147 |
| Health | 7 | 8 | 7 | 5 | 14 | 13 | 23 | 10 | 21 | 16 |
| Humanities[1] | 18 | 14 | 20 | 17 | 12 | 26 | 24 | 36 | 28 | 57 |
| Education | 34 | 23 | 48 | 34 | 48 | 59 | 57 | 51 | 52 | 53 |
| Professional/other | 8 | 5 | 8 | 8 | 11 | 16 | 11 | 8 | 13 | 21 |
| Grand total, all fields | 184 | 174 | 200 | 187 | 214 | 306 | 316 | 338 | 358 | 468 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, female, black | | | | | | | | | |
| Science and engineering, total | 144 | 122 | 125 | 150 | 138 | 177 | 161 | 196 | 197 | 251 |
| Engineering, total | 4 | 1 | 4 | 3 | 5 | 8 | 6 | 11 | 13 | 13 |
| Chemical | 1 | 0 | 1 | 1 | 2 | 1 | 1 | 3 | 4 | 1 |
| Civil | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 | 3 |
| Electrical | 0 | 0 | 2 | 0 | 1 | 2 | 2 | 2 | 3 | 4 |
| Mechanical | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| Other engineering | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 4 | 3 | 5 |
| Sciences, total | 140 | 121 | 121 | 147 | 133 | 169 | 155 | 185 | 184 | 238 |
| Physical sciences, total | 4 | 3 | 7 | 7 | 6 | 4 | 5 | 9 | 12 | 17 |
| Astronomy | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Chemistry | 3 | 2 | 6 | 7 | 6 | 4 | 4 | 8 | 8 | 16 |
| Physics | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 1 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 0 | 1 | 0 | 1 | 2 | 1 | 1 | 0 | 1 | 0 |
| Mathematics | 3 | 2 | 0 | 2 | 1 | 4 | 0 | 1 | 3 | 1 |
| Computer sciences | 0 | 1 | 0 | 1 | 0 | 4 | 1 | 3 | 2 | 4 |
| Biological sciences | 19 | 22 | 18 | 23 | 20 | 25 | 22 | 30 | 41 | 37 |
| Agricultural sciences | 3 | 3 | 4 | 1 | 1 | 1 | 1 | 2 | 3 | 5 |
| Psychology | 67 | 58 | 55 | 61 | 69 | 84 | 76 | 74 | 72 | 108 |
| Social sciences | 44 | 31 | 37 | 51 | 34 | 46 | 49 | 66 | 50 | 66 |
| Non-S&E, total | 361 | 331 | 376 | 344 | 411 | 410 | 413 | 473 | 489 | 554 |
| Health | 14 | 18 | 23 | 20 | 18 | 22 | 24 | 37 | 30 | 41 |
| Humanities[1] | 34 | 37 | 32 | 34 | 34 | 47 | 42 | 38 | 52 | 54 |
| Education | 281 | 247 | 269 | 261 | 317 | 287 | 318 | 346 | 353 | 395 |
| Professional other | 32 | 29 | 52 | 29 | 42 | 54 | 29 | 52 | 54 | 64 |
| Grand total, all fields | 505 | 453 | 501 | 494 | 549 | 587 | 574 | 669 | 686 | 805 |
| | U.S. citizens, female, Hispanic | | | | | | | | | |
| Science and engineering, total | 102 | 126 | 129 | 123 | 153 | 169 | 170 | 188 | 201 | 204 |
| Engineering, total | 3 | 3 | 6 | 6 | 6 | 10 | 11 | 11 | 5 | 10 |
| Chemical | 2 | 1 | 0 | 2 | 0 | 4 | 2 | 3 | 0 | 2 |
| Civil | 0 | 0 | 1 | 0 | 1 | 2 | 1 | 2 | 2 | 1 |
| Electrical | 1 | 0 | 2 | 1 | 1 | 0 | 2 | 3 | 0 | 1 |
| Mechanical | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 0 | 1 | 0 |
| Other engineering | 0 | 2 | 2 | 2 | 3 | 2 | 4 | 3 | 2 | 6 |
| Sciences, total | 99 | 123 | 123 | 127 | 147 | 159 | 159 | 177 | 196 | 194 |
| Physical sciences, total | 8 | 15 | 13 | 15 | 22 | 10 | 15 | 16 | 17 | 19 |
| Astronomy | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |
| Chemistry | 6 | 13 | 11 | 15 | 20 | 8 | 11 | 14 | 13 | 14 |
| Physics | 1 | 2 | 2 | 0 | 2 | 2 | 3 | 2 | 4 | 3 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 1 | 0 | 4 | 2 | 4 | 1 | 4 | 2 | 2 | 3 |
| Mathematics | 3 | 2 | 0 | 4 | 3 | 3 | 3 | 1 | 3 | 3 |
| Computer sciences | 0 | 0 | 0 | 3 | 1 | 1 | 1 | 1 | 0 | 4 |
| Biological sciences | 23 | 19 | 22 | 15 | 28 | 35 | 35 | 46 | 50 | 36 |
| Agricultural sciences | 3 | 4 | 1 | 3 | 3 | 1 | 2 | 5 | 7 | 1 |
| Psychology | 39 | 61 | 53 | 60 | 53 | 66 | 70 | 78 | 86 | 94 |
| Social sciences | 22 | 22 | 30 | 25 | 33 | 42 | 29 | 28 | 31 | 34 |
| Non-S&E, total | 168 | 159 | 145 | 142 | 188 | 192 | 198 | 223 | 245 | 252 |
| Health | 7 | 8 | 5 | 7 | 15 | 8 | 8 | 15 | 17 | 14 |
| Humanities[1] | 34 | 38 | 48 | 36 | 60 | 56 | 47 | 67 | 62 | 63 |
| Education | 121 | 103 | 86 | 90 | 99 | 112 | 126 | 125 | 150 | 150 |
| Professional other | 6 | 10 | 6 | 9 | 14 | 16 | 17 | 16 | 16 | 25 |
| Grand total, all fields | 270 | 285 | 274 | 275 | 341 | 361 | 368 | 411 | 446 | 456 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, female, Puerto Rican | | | | | | | | | |
| Science and engineering, total | 25 | 33 | 38 | 39 | 48 | 47 | 49 | 42 | 59 | 63 |
| Engineering, total | 2 | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 0 | 2 |
| Chemical | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Civil | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Electrical | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 |
| Mechanical | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| Other engineering | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 |
| Sciences, total | 23 | 32 | 36 | 38 | 46 | 45 | 46 | 40 | 59 | 61 |
| Physical sciences, total | 1 | 9 | 7 | 4 | 10 | 6 | 6 | 5 | 7 | 9 |
| Astronomy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Chemistry | 1 | 9 | 6 | 4 | 10 | 5 | 5 | 5 | 6 | 8 |
| Physics | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | [illegible] |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Mathematics | 1 | 2 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 1 |
| Computer sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Biological sciences | 3 | 7 | 10 | 4 | 10 | 11 | 11 | 11 | 14 | 9 |
| Agricultural sciences | 1 | 3 | 0 | 2 | 1 | 0 | 0 | 3 | 3 | 0 |
| Psychology | 9 | 7 | 14 | 16 | 15 | 14 | 19 | 11 | 30 | 31 |
| Social sciences | 8 | 4 | 5 | 9 | 9 | 14 | 9 | 9 | 5 | 10 |
| Non-S&E, total | 36 | 52 | 48 | 1 | 58 | 60 | 70 | 69 | 75 | 86 |
| Health | 2 | 3 | 2 | 3 | 6 | 1 | 1 | 3 | 4 | 5 |
| Humanities[1] | 7 | 11 | 14 | 12 | 20 | 19 | 12 | 18 | 22 | 16 |
| Education | 25 | 33 | 29 | 35 | 30 | 36 | 53 | 45 | 45 | 50 |
| Professional/other | 2 | 5 | 3 | 1 | 2 | 4 | 4 | 3 | 4 | 15 |
| Grand total, all fields | 61 | 85 | 86 | 90 | 106 | 107 | 119 | 111 | 134 | 149 |
| | U.S. citizens, female, Mexican American | | | | | | | | | |
| Science and engineering, total | 26 | 27 | 32 | 34 | 35 | 41 | 38 | 42 | 54 | 59 |
| Engineering, total | 0 | 1 | 0 | 3 | 2 | 2 | 0 | 1 | 2 | 1 |
| Chemical | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| Civil | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Electrical | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mechanical | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| Other engineering | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 0 |
| Sciences, total | 26 | 26 | 32 | 31 | 33 | 39 | 38 | 41 | 52 | 58 |
| Physical sciences, total | 3 | 1 | 1 | 2 | 3 | 3 | 2 | 2 | 3 | 4 |
| Astronomy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Chemistry | 2 | 0 | 1 | 2 | 3 | 2 | 2 | 1 | 2 | 2 |
| Physics | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 0 | 0 | 2 | 0 | 1 | 0 | 2 | 0 | 0 | 1 |
| Mathematics | 1 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 1 | 2 |
| Computer sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Biological sciences | 6 | 4 | 1 | 3 | 7 | 7 | 11 | 10 | 13 | 9 |
| Agricultural sciences | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| Psychology | 9 | 16 | 19 | 20 | 14 | 15 | 17 | 24 | 21 | 33 |
| Social sciences | 5 | 5 | 8 | 6 | 6 | 12 | 5 | 4 | 13 | 6 |
| Non-S&E, total | 58 | 44 | 42 | 35 | 35 | 55 | 52 | 71 | 86 | 68 |
| Health | 1 | 2 | 1 | 2 | 6 | 3 | 5 | 5 | 3 | 5 |
| Humanities[1] | 6 | 4 | 9 | 9 | 8 | 12 | 9 | 16 | 17 | 12 |
| Education | 49 | 36 | 30 | 23 | 19 | 37 | 32 | 44 | 63 | 50 |
| Professional/other | 2 | 2 | 2 | 1 | 2 | 3 | 6 | 6 | 3 | 1 |
| Grand total, all fields | 84 | 71 | 74 | 69 | 70 | 96 | 90 | 113 | 140 | 127 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens, female, other Hispanic | | | | | | | | | |
| Science and engineering, total | 51 | 66 | 59 | 60 | 70 | 81 | 83 | 104 | 88 | 82 |
| Engineering, total | 1 | 1 | 4 | 2 | 2 | 6 | 8 | 8 | 3 | 7 |
| Chemical | 0 | 1 | 0 | 1 | 0 | 2 | 2 | 3 | 0 | 0 |
| Civil | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 2 | 1 |
| Electrical | 1 | 0 | 2 | 0 | 0 | 0 | 1 | 2 | 0 | 1 |
| Mechanical | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 |
| Other engineering | 0 | 0 | 1 | 1 | 2 | 1 | 3 | 2 | 0 | 5 |
| Sciences, total | 50 | 65 | 55 | 58 | 68 | 75 | 75 | 96 | 85 | 75 |
| Physical sciences, total | 4 | 5 | 5 | 9 | 9 | 1 | 7 | 9 | 7 | 6 |
| Astronomy | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Chemistry | 3 | 4 | 4 | 9 | 7 | 1 | 4 | 8 | 5 | 4 |
| Physics | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 1 | 2 | 2 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 1 | 0 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 |
| Mathematics | 1 | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 2 | 0 |
| Computer sciences | 0 | 0 | 0 | 3 | 1 | 1 | 1 | 0 | 0 | 2 |
| Biological sciences | 14 | 8 | 11 | 8 | 11 | 17 | 13 | 25 | 23 | 18 |
| Agricultural sciences | 0 | 1 | 0 | 1 | 2 | 1 | 1 | 1 | 3 | 0 |
| Psychology | 21 | 38 | 20 | 24 | 24 | 37 | 34 | 43 | 35 | 30 |
| Social sciences | 9 | 13 | 17 | 10 | 18 | 16 | 15 | 15 | 13 | 18 |
| Non-S&E, total | 74 | 63 | 55 | 56 | 95 | 77 | 76 | 83 | 84 | 98 |
| Health | 4 | 3 | 2 | 2 | 3 | 4 | 2 | 7 | 10 | 4 |
| Humanities[1] | 21 | 23 | 25 | 15 | 32 | 25 | 26 | 33 | 23 | 35 |
| Education | 47 | 34 | 27 | 32 | 50 | 39 | 41 | 36 | 42 | 50 |
| Professional other | 2 | 3 | 1 | 7 | 10 | 9 | 7 | 7 | 9 | 9 |
| Grand total, all fields | 125 | 129 | 114 | 116 | 165 | 158 | 159 | 187 | 172 | 180 |
| | U.S. citizens, female, white | | | | | | | | | |
| Science and engineering, total | 3,721 | 3,712 | 3,916 | 4,168 | 4,403 | 4,602 | 4,558 | 4,841 | 5,001 | 5,033 |
| Engineering, total | 125 | 132 | 155 | 212 | 216 | 221 | 227 | 248 | 291 | 296 |
| Chemical | 29 | 40 | 41 | 48 | 45 | 38 | 56 | 49 | 45 | 56 |
| Civil | 8 | 8 | 11 | 32 | 27 | 15 | 17 | 25 | 44 | 30 |
| Electrical | 19 | 12 | 20 | 23 | 39 | 33 | 38 | 45 | 50 | 59 |
| Mechanical | 12 | 10 | 15 | 17 | 19 | 27 | 19 | 31 | 25 | 24 |
| Other engineering | 57 | 62 | 68 | 92 | 86 | 108 | 97 | 98 | 127 | 127 |
| Sciences, total | 3,596 | 3,580 | 3,761 | 3,956 | 4,187 | 4,381 | 4,331 | 4,593 | 4,710 | 4,737 |
| Physical sciences, total | 294 | 322 | 330 | 365 | 368 | 372 | 382 | 375 | 387 | 425 |
| Astronomy | 3 | 9 | 12 | 11 | 16 | 6 | 10 | 19 | 19 | 18 |
| Chemistry | 241 | 261 | 272 | 310 | 307 | 305 | 307 | 291 | 296 | 332 |
| Physics | 45 | 51 | 39 | 43 | 39 | 58 | 61 | 63 | 70 | 73 |
| Other physical sciences | 5 | 1 | 7 | 1 | 6 | 3 | 4 | 2 | 2 | 2 |
| Earth, atmospheric, and ocean sciences | 70 | 80 | 99 | 107 | 109 | 137 | 130 | 108 | 120 | 106 |
| Mathematics | 60 | 57 | 55 | 53 | 74 | 79 | 88 | 111 | 111 | 119 |
| Computer sciences | 37 | 43 | 38 | 61 | 77 | 70 | 64 | 72 | 70 | 99 |
| Biological sciences | 960 | 970 | 1,080 | 1,087 | 1,133 | 1,140 | 1,196 | 1,274 | 1,305 | 1,299 |
| Agricultural sciences | 108 | 104 | 106 | 145 | 141 | 121 | 126 | 112 | 118 | 99 |
| Psychology | 1,294 | 1,317 | 1,326 | 1,374 | 1,540 | 1,636 | 1,521 | 1,670 | 1,673 | 1,701 |
| Social sciences | 773 | 687 | 727 | 734 | 745 | 826 | 824 | 871 | 926 | 889 |
| Non-S&E, total | 4,605 | 4,587 | 4,526 | 4,739 | 5,079 | 5,138 | 5,499 | 5,544 | 5,752 | 5,775 |
| Health | 375 | 356 | 419 | 484 | 450 | 505 | 543 | 584 | 596 | 585 |
| Humanities[1] | 1,028 | 1,023 | 1,042 | 1,031 | 1,198 | 1,219 | 1,353 | 1,423 | 1,488 | 1,611 |
| Education | 2,723 | 2,687 | 2,609 | 2,694 | 2,843 | 2,851 | 3,018 | 2,931 | 3,044 | 2,931 |
| Professional other | 479 | 521 | 456 | 530 | 588 | 563 | 585 | 606 | 624 | 648 |
| Grand total, all fields | 8,326 | 8,299 | 8,442 | 8,907 | 9,482 | 9,740 | 10,057 | 10,385 | 10,753 | 10,808 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Non-U.S. citizens with permanent visas | | | | | | | | | |
| Science and engineering, total | 994 | 1,089 | 1,130 | 1,124 | 1,197 | 1,285 | 1,382 | 1,641 | 3,022 | 3,501 |
| Engineering, total | 343 | 355 | 366 | 365 | 389 | 388 | 411 | 469 | 838 | 954 |
| Chemical | 57 | 56 | 50 | 62 | 50 | 51 | 60 | 53 | 87 | 90 |
| Civil | 53 | 41 | 46 | 59 | 61 | 40 | 51 | 59 | 89 | 103 |
| Electrical | 83 | 73 | 105 | 99 | 108 | 132 | 122 | 165 | 265 | 288 |
| Mechanical | 58 | 67 | 71 | 66 | 69 | 62 | 74 | 87 | 179 | 179 |
| Other engineering | 92 | 118 | 94 | 79 | 101 | 103 | 104 | 105 | 218 | 294 |
| Sciences, total | 651 | 734 | 764 | 759 | 808 | 897 | 971 | 1,172 | 2,184 | 2,547 |
| Physical sciences, total | 134 | 147 | 128 | 147 | 172 | 180 | 199 | 237 | 591 | 704 |
| Astronomy | 3 | 1 | 7 | 4 | 4 | 2 | 6 | 5 | 9 | 21 |
| Chemistry | 93 | 91 | 73 | 85 | 99 | 110 | 112 | 128 | 325 | 386 |
| Physics | 37 | 55 | 55 | 57 | 65 | 68 | 81 | 102 | 255 | 295 |
| Other physical sciences | 1 | 0 | 4 | 1 | 4 | 0 | 0 | 2 | 2 | 2 |
| Earth, atmospheric, and ocean sciences | 23 | 25 | 27 | 29 | 19 | 26 | 35 | 41 | 106 | 115 |
| Mathematics | 36 | 51 | 44 | 35 | 47 | 55 | 53 | 94 | 153 | 217 |
| Computer sciences | 47 | 32 | 42 | 58 | 55 | 63 | 67 | 84 | 117 | 133 |
| Biological sciences | 117 | 160 | 192 | 182 | 189 | 211 | 240 | 303 | 667 | 832 |
| Agricultural sciences | 47 | 48 | 71 | 45 | 57 | 56 | 62 | 49 | 97 | 106 |
| Psychology | 65 | 59 | 61 | 54 | 73 | 65 | 86 | 90 | 84 | 101 |
| Social sciences | 182 | 212 | 188 | 209 | 196 | 241 | 229 | 274 | 369 | 339 |
| Non-S&E, total | 439 | 489 | 492 | 502 | 501 | 572 | 597 | 614 | 726 | 806 |
| Health | 35 | 40 | 35 | 27 | 35 | 60 | 46 | 60 | 89 | 107 |
| Humanities[1] | 137 | 163 | 150 | 186 | 183 | 219 | 229 | 238 | 280 | 308 |
| Education | 173 | 172 | 177 | 164 | 153 | 174 | 165 | 175 | 199 | 215 |
| Professional/other | 94 | 114 | 130 | 125 | 130 | 119 | 157 | 141 | 158 | 176 |
| Grand total, all fields | 1,433 | 1,578 | 1,622 | 1,626 | 1,698 | 1,857 | 1,979 | 2,255 | 3,748 | 4,307 |
| | Non-U.S. citizens with permanent visas, American Indian/Alaskan Native | | | | | | | | | |
| Science and engineering, total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Engineering, total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chemical | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Civil | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Electrical | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mechanical | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other engineering | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sciences, total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Physical sciences, total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Astronomy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chemistry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Physics | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mathematics | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Computer sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Biological sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Agricultural sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Psychology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Social sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non-S&E, total | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Health | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Humanities[1] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Education | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Professional/other | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Grand total, all fields | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Non-U.S. citizens with permanent visas, Asian | | | | | | | | | |
| Science and engineering, total | 413 | 478 | 462 | 492 | 521 | 581 | 693 | 898 | 2,253 | 2,771 |
| Engineering, total | 182 | 192 | 191 | 187 | 202 | 218 | 237 | 310 | 665 | 776 |
| Chemical | 41 | 36 | 35 | 37 | 25 | 23 | 29 | 36 | 69 | 74 |
| Civil | 18 | 20 | 19 | 21 | 20 | 19 | 22 | 31 | 62 | 76 |
| Electrical | 52 | 37 | 58 | 45 | 64 | 73 | 80 | 113 | 207 | 230 |
| Mechanical | 21 | 36 | 35 | 41 | 42 | 36 | 43 | 59 | 151 | 150 |
| Other engineering | 50 | 63 | 44 | 43 | 51 | 67 | 63 | 71 | 176 | 246 |
| Sciences, total | 231 | 286 | 271 | 305 | 319 | 363 | 456 | 588 | 1,588 | 1,995 |
| Physical sciences, total | 71 | 76 | 71 | 81 | 78 | 86 | 118 | 144 | 478 | 603 |
| Astronomy | 1 | 0 | 3 | 2 | 4 | 0 | 2 | 1 | 6 | 18 |
| Chemistry | 53 | 59 | 37 | 54 | 45 | 59 | 69 | 81 | 262 | 325 |
| Physics | 17 | 17 | 30 | 24 | 27 | 27 | 47 | 61 | 208 | 259 |
| Other physical sciences | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 1 | 2 | 1 |
| Earth, atmospheric, and ocean sciences | 8 | 9 | 6 | 11 | 11 | 10 | 13 | 16 | 82 | 96 |
| Mathematics | 14 | 23 | 16 | 11 | 16 | 34 | 31 | 51 | 124 | 183 |
| Computer sciences | 25 | 16 | 23 | 34 | 38 | 34 | 49 | 50 | 84 | 96 |
| Biological sciences | 43 | 64 | 70 | 93 | 84 | 101 | 135 | 180 | 526 | 695 |
| Agricultural sciences | 10 | 21 | 21 | 16 | 21 | 15 | 24 | 20 | 58 | 68 |
| Psychology | 9 | 9 | 10 | 17 | 9 | 13 | 12 | 21 | 28 | 37 |
| Social sciences | 51 | 68 | 53 | 56 | 62 | 70 | 74 | 106 | 208 | 217 |
| Non-S&E, total | 115 | 147 | 159 | 143 | 144 | 161 | 222 | 225 | 343 | 391 |
| Health | 15 | 16 | 14 | 11 | 13 | 21 | 20 | 28 | 58 | 71 |
| Humanities[1] | 16 | 31 | 28 | 38 | 32 | 38 | 53 | 55 | 92 | 108 |
| Education | 35 | 54 | 48 | 45 | 37 | 45 | 64 | 58 | 92 | 94 |
| Professional/other | 49 | 46 | 69 | 49 | 62 | 57 | 85 | 84 | 101 | 118 |
| Grand total, all fields | 528 | 625 | 621 | 635 | 665 | 742 | 915 | 1,123 | 2,596 | 3,162 |
| | Non-U.S. citizens with permanent visas, black | | | | | | | | | |
| Science and engineering, total | 64 | 74 | 86 | 69 | 82 | 96 | 85 | 93 | 109 | 89 |
| Engineering, total | 10 | 13 | 9 | 9 | 12 | 12 | 17 | 9 | 10 | 17 |
| Chemical | 3 | 0 | 3 | 3 | 5 | 4 | 5 | 2 | 2 | 1 |
| Civil | 2 | 3 | 1 | 3 | 1 | 4 | 3 | 2 | 0 | 4 |
| Electrical | 2 | 3 | 0 | 1 | 1 | 0 | 5 | 2 | 3 | 4 |
| Mechanical | 0 | 1 | 1 | 0 | 0 | 0 | 2 | 1 | 3 | 6 |
| Other engineering | 3 | 6 | 7 | 2 | 5 | 4 | 2 | 2 | 2 | 2 |
| Sciences, total | 54 | 61 | 74 | 60 | 70 | 84 | 68 | 84 | 99 | 72 |
| Physical sciences, total | 6 | 4 | 5 | 6 | 11 | 7 | 4 | 12 | 13 | 6 |
| Astronomy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chemistry | 4 | 2 | 4 | 6 | 10 | 4 | 4 | 12 | 11 | 6 |
| Physics | 1 | 2 | 1 | 0 | 1 | 3 | 0 | 0 | 2 | 0 |
| Other physical sciences | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 2 | 3 | 1 |
| Mathematics | 1 | 1 | 2 | 2 | 0 | 2 | 0 | 3 | 2 | 1 |
| Computer sciences | 1 | 0 | 1 | 0 | 0 | 3 | 1 | 1 | 3 | 2 |
| Biological sciences | 8 | 15 | 12 | 11 | 14 | 13 | 15 | 11 | 12 | 17 |
| Agricultural sciences | 9 | 6 | 12 | 8 | 6 | 11 | 8 | 11 | 12 | 8 |
| Psychology | 7 | 5 | 4 | 1 | 4 | 4 | 5 | 2 | 12 | 6 |
| Social sciences | 22 | 29 | 37 | 31 | 35 | 43 | 34 | 42 | 42 | 31 |
| Non-S&E, total | 62 | 65 | 66 | 72 | 67 | 60 | 60 | 76 | 70 | 79 |
| Health | 4 | 6 | 6 | 5 | 7 | 5 | 3 | 7 | 5 | 5 |
| Humanities[1] | 9 | 8 | 9 | 8 | 3 | 8 | 6 | 16 | 13 | 18 |
| Education | 41 | 34 | 44 | 42 | 40 | 35 | 34 | 41 | 35 | 44 |
| Professional/other | 8 | 17 | 7 | 17 | 17 | 12 | 17 | 12 | 17 | 12 |
| Grand total, all fields | 126 | 139 | 152 | 141 | 149 | 156 | 145 | 169 | 179 | 168 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Non-U.S. citizens with permanent visas, Hispanic | | | | | | | | | |
| Science and engineering, total | 66 | 49 | 66 | 69 | 78 | 82 | 80 | 98 | 85 | 82 |
| Engineering, total | 10 | 10 | 20 | 14 | 15 | 12 | 14 | 10 | 17 | 16 |
| Chemical | 0 | 4 | 2 | 4 | 1 | 1 | 6 | 0 | 2 | 1 |
| Civil | 4 | 0 | 3 | 4 | 3 | 0 | 1 | 5 | 7 | 4 |
| Electrical | 2 | 2 | 4 | 4 | 4 | 4 | 3 | 1 | 5 | 1 |
| Mechanical | 3 | 1 | 2 | 0 | 2 | 1 | 1 | 2 | 1 | 3 |
| Other engineering | 1 | 3 | 9 | 2 | 5 | 6 | 3 | 2 | 2 | 7 |
| Sciences, total | 56 | 39 | 46 | 55 | 63 | 70 | 66 | 88 | 68 | 66 |
| Physical sciences, total | 5 | 8 | 5 | 7 | 9 | 11 | 14 | 14 | 15 | 12 |
| Astronomy | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |
| Chemistry | 1 | 4 | 4 | 3 | 7 | 7 | 8 | 8 | 10 | 5 |
| Physics | 3 | 4 | 1 | 3 | 2 | 4 | 6 | 5 | 5 | 6 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 0 | 2 | 0 | 3 | 2 | 4 | 3 | 5 | 1 | 5 |
| Mathematics | 3 | 2 | 1 | 3 | 3 | 3 | 2 | 7 | 1 | 3 |
| Computer sciences | 3 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 0 |
| Biological sciences | 14 | 10 | 15 | 13 | 16 | 16 | 12 | 21 | 20 | 22 |
| Agricultural sciences | 10 | 3 | 8 | 6 | 9 | 8 | 9 | 6 | 9 | 11 |
| Psychology | 8 | 3 | 4 | 6 | 9 | 9 | 11 | 11 | 5 | 8 |
| Social sciences | 13 | 11 | 13 | 17 | 14 | 18 | 14 | 22 | 15 | 5 |
| Non-S&E, total | 41 | 42 | 32 | 43 | 38 | 54 | 51 | 41 | 60 | 57 |
| Health | 0 | 0 | 2 | 1 | 0 | 4 | 1 | 5 | 5 | 1 |
| Humanities[1] | 23 | 25 | 16 | 23 | 23 | 31 | 31 | 23 | 38 | 31 |
| Education | 14 | 16 | 7 | 13 | 11 | 14 | 14 | 9 | 15 | 23 |
| Professional/other | 4 | 1 | 7 | 6 | 4 | 5 | 5 | 4 | 2 | 2 |
| Grand total, all fields | 107 | 91 | 98 | 112 | 116 | 136 | 131 | 139 | 145 | 139 |
| | Non-U.S. citizens with permanent visas, white | | | | | | | | | |
| Science and engineering, total | 402 | 440 | 452 | 452 | 476 | 484 | 475 | 526 | 534 | 529 |
| Engineering, total | 125 | 127 | 124 | 143 | 150 | 130 | 130 | 133 | 134 | 134 |
| Chemical | 11 | 14 | 8 | 17 | 19 | 22 | 17 | 13 | 13 | 14 |
| Civil | 28 | 18 | 21 | 28 | 34 | 16 | 24 | 21 | 18 | 19 |
| Electrical | 26 | 27 | 39 | 45 | 37 | 48 | 30 | 46 | 45 | 50 |
| Mechanical | 29 | 27 | 28 | 23 | 25 | 22 | 26 | 25 | 21 | 19 |
| Other engineering | 31 | 41 | 28 | 30 | 35 | 22 | 33 | 28 | 37 | 32 |
| Sciences, total | 277 | 313 | 328 | 309 | 326 | 354 | 345 | 393 | 400 | 395 |
| Physical sciences, total | 41 | 54 | 48 | 51 | 69 | 72 | 56 | 63 | 81 | 77 |
| Astronomy | 1 | 1 | 3 | 1 | 0 | 2 | 4 | 3 | 3 | 2 |
| Chemistry | 26 | 24 | 22 | 21 | 35 | 38 | 27 | 26 | 40 | 47 |
| Physics | 14 | 29 | 21 | 29 | 32 | 32 | 25 | 33 | 38 | 27 |
| Other physical sciences | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 1 |
| Earth, atmospheric, and ocean sciences | 15 | 13 | 18 | 14 | 6 | 11 | 16 | 15 | 18 | 12 |
| Mathematics | 17 | 24 | 24 | 18 | 26 | 16 | 18 | 31 | 24 | 28 |
| Computer sciences | 17 | 14 | 12 | 23 | 14 | 25 | 15 | 31 | 26 | 34 |
| Biological sciences | 48 | 62 | 88 | 72 | 66 | 76 | 70 | 90 | 103 | 95 |
| Agricultural sciences | 14 | 13 | 25 | 10 | 19 | 18 | 18 | 12 | 16 | 17 |
| Psychology | 38 | 40 | 41 | 30 | 49 | 36 | 56 | 56 | 36 | 49 |
| Social sciences | 87 | 93 | 72 | 91 | 77 | 100 | 96 | 95 | 96 | 83 |
| Non-S&E, total | 194 | 214 | 222 | 224 | 231 | 276 | 239 | 264 | 246 | 268 |
| Health | 16 | 17 | 10 | 9 | 14 | 29 | 21 | 18 | 21 | 28 |
| Humanities[1] | 76 | 94 | 96 | 111 | 117 | 136 | 134 | 140 | 133 | 147 |
| Education | 71 | 62 | 72 | 58 | 58 | 69 | 44 | 67 | 55 | 50 |
| Professional/other | 31 | 41 | 44 | 46 | 42 | 42 | 40 | 39 | 37 | 43 |
| Grand total, all fields | 596 | 654 | 674 | 676 | 707 | 760 | 714 | 790 | 780 | 797 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Non-U.S. citizens with permanent visas, male | | | | | | | | | |
| Science and engineering, total | 789 | 830 | 874 | 850 | 908 | 926 | 967 | 1,120 | 2,231 | 2,483 |
| Engineering, total | 323 | 330 | 348 | 339 | 361 | 351 | 366 | 417 | 733 | 810 |
| Chemical | 51 | 48 | 43 | 53 | 42 | 42 | 46 | 48 | 66 | 72 |
| Civil | 48 | 39 | 44 | 56 | 56 | 36 | 48 | 57 | 82 | 87 |
| Electrical | 79 | 72 | 100 | 92 | 106 | 128 | 110 | 142 | 241 | 247 |
| Mechanical | 58 | 66 | 70 | 66 | 68 | 59 | 72 | 84 | 157 | 159 |
| Other engineering | 87 | 105 | 91 | 72 | 89 | 86 | 90 | 86 | 187 | 245 |
| Sciences, total | 466 | 500 | 526 | 511 | 547 | 575 | 601 | 703 | 1,498 | 1,673 |
| Physical sciences, total | 95 | 110 | 98 | 112 | 124 | 138 | 132 | 162 | 419 | 515 |
| Astronomy | 2 | 1 | 6 | 2 | 2 | 2 | 4 | 2 | 8 | 17 |
| Chemistry | 60 | 60 | 50 | 62 | 68 | 78 | 68 | 79 | 206 | 258 |
| Physics | 32 | 49 | 39 | 47 | 50 | 58 | 60 | 79 | 204 | 239 |
| Other physical sciences | 1 | 0 | 3 | 1 | 4 | 0 | 0 | 2 | 1 | 1 |
| Earth, atmospheric, and ocean sciences | 20 | 18 | 24 | 23 | 19 | 17 | 26 | 33 | 87 | 83 |
| Mathematics | 32 | 39 | 33 | 27 | 36 | 36 | 33 | 54 | 124 | 166 |
| Computer sciences | 41 | 28 | 35 | 46 | 45 | 52 | 53 | 57 | 100 | 106 |
| Biological sciences | 76 | 93 | 111 | 96 | 110 | 111 | 131 | 168 | 416 | 462 |
| Agricultural sciences | 40 | 38 | 62 | 37 | 45 | 47 | 46 | 39 | 69 | 83 |
| Psychology | 32 | 18 | 27 | 28 | 25 | 22 | 30 | 21 | 26 | 35 |
| Social sciences | 130 | 156 | 136 | 142 | 143 | 152 | 150 | 169 | 257 | 223 |
| Non-S&E, total | 279 | 287 | 290 | 289 | 282 | 298 | 325 | 347 | 407 | 423 |
| Health | 22 | 24 | 20 | 18 | 18 | 31 | 23 | 34 | 45 | 62 |
| Humanities[1] | 70 | 80 | 65 | 83 | 80 | 97 | 104 | 116 | 141 | 138 |
| Education | 106 | 94 | 102 | 89 | 86 | 92 | 84 | 94 | 107 | 94 |
| Professional/other | 81 | 89 | 103 | 99 | 98 | 78 | 114 | 103 | 114 | 129 |
| Grand total, all fields | 1,068 | 1,117 | 1,164 | 1,139 | 1,190 | 1,224 | 1,292 | 1,467 | 2,638 | 2,906 |
| | Non-U.S. citizens with permanent visas, female | | | | | | | | | |
| Science and engineering, total | 205 | 259 | 256 | 274 | 289 | 359 | 415 | 521 | 791 | 1,018 |
| Engineering, total | 20 | 25 | 18 | 26 | 28 | 37 | 45 | 52 | 105 | 144 |
| Chemical | 6 | 8 | 7 | 9 | 8 | 9 | 14 | 5 | 21 | 18 |
| Civil | 5 | 2 | 2 | 3 | 5 | 4 | 3 | 2 | 7 | 16 |
| Electrical | 4 | 1 | 5 | 7 | 2 | 4 | 12 | 23 | 24 | 41 |
| Mechanical | 0 | 1 | 1 | 0 | 1 | 3 | 2 | 3 | 22 | 20 |
| Other engineering | 5 | 13 | 3 | 7 | 12 | 17 | 14 | 19 | 31 | 49 |
| Sciences, total | 185 | 234 | 238 | 248 | 261 | 322 | 370 | 469 | 686 | 874 |
| Physical sciences, total | 39 | 37 | 41 | 35 | 48 | 42 | 67 | 75 | 172 | 189 |
| Astronomy | 1 | 0 | 1 | 2 | 2 | 0 | 2 | 3 | 1 | 4 |
| Chemistry | 33 | 31 | 23 | 23 | 31 | 32 | 44 | 49 | 119 | 128 |
| Physics | 5 | 6 | 16 | 10 | 15 | 10 | 21 | 23 | 51 | 56 |
| Other physical sciences | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Earth, atmospheric, and ocean sciences | 3 | 7 | 3 | 6 | 0 | 9 | 9 | 8 | 19 | 32 |
| Mathematics | 4 | 12 | 11 | 8 | 11 | 19 | 20 | 40 | 29 | 51 |
| Computer sciences | 6 | 4 | 7 | 12 | 10 | 11 | 14 | 27 | 17 | 27 |
| Biological sciences | 41 | 67 | 81 | 86 | 79 | 100 | 109 | 135 | 251 | 370 |
| Agricultural sciences | 7 | 10 | 9 | 8 | 12 | 9 | 16 | 10 | 28 | 23 |
| Psychology | 33 | 41 | 34 | 26 | 48 | 43 | 56 | 69 | 58 | 66 |
| Social sciences | 52 | 56 | 52 | 67 | 53 | 89 | 79 | 105 | 112 | 116 |
| Non-S&E, total | 160 | 202 | 202 | 213 | 219 | 274 | 272 | 267 | 319 | 383 |
| Health | 13 | 16 | 15 | 9 | 17 | 29 | 23 | 26 | 44 | 45 |
| Humanities[1] | 67 | 83 | 85 | 103 | 103 | 122 | 125 | 122 | 139 | 170 |
| Education | 67 | 78 | 75 | 75 | 67 | 82 | 81 | 81 | 92 | 121 |
| Professional/other | 13 | 25 | 27 | 26 | 32 | 41 | 43 | 38 | 44 | 47 |
| Grand total, all fields | 365 | 461 | 458 | 487 | 508 | 633 | 687 | 788 | 1,110 | 1,401 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Non-U.S. citizens with temporary visas | | | | | | | | | |
| Science and engineering, total | 4,160 | 4,468 | 4,936 | 5,391 | 6,571 | 7,642 | 8,092 | 8,113 | 7,521 | 6,992 |
| Engineering, total | 1,372 | 1,532 | 1,721 | 1,940 | 2,277 | 2,634 | 2,743 | 2,784 | 2,653 | 2,523 |
| Chemical | 199 | 216 | 236 | 236 | 250 | 281 | 339 | 336 | 336 | 318 |
| Civil | 199 | 233 | 266 | 262 | 284 | 353 | 357 | 380 | 385 | 337 |
| Electrical | 320 | 310 | 419 | 498 | 602 | 690 | 725 | 703 | 735 | 712 |
| Mechanical | 231 | 303 | 333 | 358 | 465 | 493 | 538 | 554 | 459 | 437 |
| Other engineering | 423 | 470 | 467 | 586 | 676 | 817 | 784 | 811 | 738 | 719 |
| Sciences, total | 2,788 | 2,936 | 3,215 | 3,451 | 4,294 | 5,008 | 5,349 | 5,329 | 4,868 | 4,469 |
| Physical sciences, total | 767 | 801 | 870 | 890 | 1,073 | 1,257 | 1,346 | 1,263 | 1,107 | 930 |
| Astronomy | 17 | 23 | 20 | 26 | 30 | 37 | 28 | 34 | 32 | 28 |
| Chemistry | 393 | 399 | 442 | 461 | 530 | 689 | 729 | 675 | 597 | 493 |
| Physics | 348 | 376 | 403 | 401 | 507 | 525 | 581 | 550 | 471 | 399 |
| Other physical sciences | 9 | 3 | 5 | 2 | 6 | 6 | 8 | 4 | 7 | 10 |
| Earth, atmospheric, and ocean sciences | 97 | 122 | 132 | 122 | 171 | 185 | 236 | 235 | 197 | 172 |
| Mathematics | 272 | 302 | 305 | 346 | 424 | 506 | 511 | 517 | 448 | 382 |
| Computer sciences | 123 | 143 | 176 | 178 | 271 | 340 | 365 | 348 | 343 | 365 |
| Biological sciences | 391 | 492 | 557 | 608 | 853 | 1,059 | 1,159 | 1,246 | 1,058 | 971 |
| Agricultural sciences | 320 | 289 | 345 | 355 | 440 | 435 | 472 | 447 | 453 | 429 |
| Psychology | 81 | 85 | 84 | 106 | 117 | 133 | 156 | 148 | 151 | 162 |
| Social sciences | 737 | 702 | 746 | 846 | 945 | 1,093 | 1,104 | 1,125 | 1,111 | 1,058 |
| Non-S&E, total | 1,116 | 1,144 | 1,259 | 1,257 | 1,522 | 1,670 | 1,861 | 1,821 | 1,885 | 1,814 |
| Health | 99 | 96 | 118 | 134 | 166 | 171 | 226 | 214 | 230 | 245 |
| Humanities[1] | 249 | 252 | 290 | 283 | 354 | 444 | 495 | 469 | 532 | 549 |
| Education | 471 | 421 | 481 | 452 | 501 | 503 | 553 | 546 | 537 | 501 |
| Professional/other | 297 | 375 | 370 | 388 | 501 | 552 | 587 | 592 | 586 | 519 |
| Grand total, all fields | 5,276 | 5,612 | 6,195 | 6,648 | 8,093 | 9,312 | 9,953 | 9,934 | 9,406 | 8,806 |
| | Non-U.S. citizens with temporary visas, American Indian/Alaskan Native | | | | | | | | | |
| Science and engineering, total | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 |
| Engineering, total | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Chemical | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Civil | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Electrical | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mechanical | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other engineering | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Sciences, total | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |
| Physical sciences, total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Astronomy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chemistry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Physics | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mathematics | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Computer sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Biological sciences | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Agricultural sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Psychology | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Social sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non-S&E, total | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| Health | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Humanities[1] | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| Education | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Professional/other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grand total, all fields | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 3 | 0 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Non-U.S. citizens with temporary visas, Asian | | | | | | | | | |
| Science and engineering, total | 2,202 | 2,459 | 2,897 | 3,254 | 4,160 | 5,018 | 5,495 | 5,579 | 4,788 | 4,419 |
| Engineering, total | 838 | 958 | 1,124 | 1,264 | 1,497 | 1,849 | 1,992 | 2,058 | 1,839 | 1,798 |
| Chemical | 133 | 155 | 167 | 148 | 165 | 210 | 243 | 248 | 222 | 236 |
| Civil | 106 | 118 | 147 | 137 | 163 | 199 | 202 | 241 | 225 | 217 |
| Electrical | 180 | 187 | 279 | 327 | 396 | 501 | 516 | 516 | 518 | 500 |
| Mechanical | 139 | 202 | 244 | 242 | 341 | 383 | 425 | 437 | 359 | 339 |
| Other engineering | 280 | 296 | 287 | 410 | 432 | 556 | 606 | 616 | 515 | 506 |
| Sciences, total | 1,364 | 1,501 | 1,773 | 1,990 | 2,663 | 3,169 | 3,503 | 3,521 | 2,949 | 2,621 |
| Physical sciences, total | 484 | 506 | 595 | 642 | 792 | 910 | 998 | 934 | 773 | 597 |
| Astronomy | 4 | 13 | 6 | 13 | 15 | 19 | 17 | 19 | 15 | 14 |
| Chemistry | 262 | 267 | 329 | 362 | 418 | 538 | 569 | 533 | 452 | 360 |
| Physics | 210 | 225 | 257 | 266 | 353 | 351 | 409 | 380 | 303 | 220 |
| Other physical sciences | 8 | 1 | 3 | 1 | 6 | 2 | 3 | 2 | 3 | 3 |
| Earth, atmospheric, and ocean sciences | 42 | 57 | 67 | 56 | 95 | 96 | 141 | 142 | 92 | 88 |
| Mathematics | 125 | 131 | 150 | 187 | 254 | 321 | 330 | 320 | 243 | 170 |
| Computer sciences | 68 | 86 | 114 | 120 | 192 | 239 | 253 | 254 | 244 | 235 |
| Biological sciences | 196 | 260 | 323 | 352 | 558 | 707 | 838 | 907 | 676 | 630 |
| Agricultural sciences | 122 | 118 | 131 | 149 | 209 | 224 | 249 | 228 | 212 | 208 |
| Psychology | 20 | 15 | 27 | 35 | 48 | 47 | 62 | 71 | 70 | 91 |
| Social sciences | 307 | 328 | 366 | 449 | 515 | 625 | 632 | 665 | 639 | 602 |
| Non-S&E, total | 443 | 476 | 621 | 653 | 771 | 931 | 1,010 | 1,027 | 1,011 | 956 |
| Health | 43 | 37 | 53 | 72 | 76 | 94 | 125 | 136 | 130 | 142 |
| Humanities[1] | 74 | 62 | 101 | 94 | 104 | 162 | 170 | 182 | 174 | 180 |
| Education | 161 | 178 | 229 | 231 | 255 | 293 | 318 | 310 | 312 | 281 |
| Professional/other | 165 | 199 | 238 | 256 | 336 | 382 | 397 | 399 | 395 | 353 |
| Grand total, all fields | 2,645 | 2,935 | 3,518 | 3,907 | 4,931 | 5,949 | 6,505 | 6,606 | 5,799 | 5,375 |
| | Non-U.S. citizens with temporary visas, black | | | | | | | | | |
| Science and engineering, total | 197 | 183 | 191 | 171 | 195 | 189 | 195 | 210 | 268 | 212 |
| Engineering, total | 25 | 31 | 36 | 23 | 35 | 25 | 24 | 31 | 34 | 31 |
| Chemical | 1 | 3 | 4 | 3 | 4 | 3 | 1 | 6 | 8 | 2 |
| Civil | 9 | 15 | 5 | 5 | 10 | 7 | 5 | 10 | 9 | 4 |
| Electrical | 4 | 4 | 4 | 6 | 8 | 4 | 5 | 3 | 6 | 10 |
| Mechanical | 6 | 2 | 4 | 3 | 3 | 2 | 6 | 4 | 2 | 9 |
| Other engineering | 5 | 7 | 19 | 6 | 10 | 9 | 7 | 8 | 9 | 6 |
| Sciences, total | 172 | 152 | 155 | 148 | 160 | 164 | 171 | 179 | 234 | 181 |
| Physical sciences, total | 19 | 17 | 17 | 13 | 6 | 28 | 23 | 15 | 25 | 25 |
| Astronomy | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Chemistry | 17 | 14 | 12 | 12 | 4 | 21 | 20 | 13 | 18 | 17 |
| Physics | 2 | 3 | 5 | 1 | 2 | 6 | 3 | 2 | 6 | 8 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Earth, atmospheric, and ocean sciences | 3 | 1 | 4 | 3 | 3 | 2 | 9 | 3 | 4 | 6 |
| Mathematics | 6 | 7 | 4 | 5 | 9 | 4 | 8 | 9 | 11 | 6 |
| Computer sciences | 3 | 1 | 2 | 3 | 1 | 5 | 1 | 3 | 1 | 3 |
| Biological sciences | 32 | 19 | 32 | 24 | 26 | 27 | 24 | 28 | 43 | 24 |
| Agricultural sciences | 33 | 26 | 31 | 33 | 39 | 32 | 43 | 42 | 68 | 49 |
| Psychology | 3 | 4 | 6 | 4 | 6 | 6 | 3 | 6 | 6 | 4 |
| Social sciences | 73 | 77 | 59 | 63 | 70 | 60 | 60 | 73 | 76 | 64 |
| Non-S&E, total | 116 | 122 | 100 | 102 | 96 | 104 | 116 | 112 | 120 | 123 |
| Health | 13 | 7 | 9 | 12 | 4 | 15 | 17 | 13 | 12 | 18 |
| Humanities[1] | 16 | 32 | 14 | 9 | 12 | 17 | 26 | 31 | 24 | 27 |
| Education | 72 | 55 | 60 | 56 | 56 | 52 | 48 | 51 | 59 | 51 |
| Professional/other | 15 | 28 | 17 | 25 | 24 | 20 | 25 | 17 | 25 | 27 |
| Grand total, all fields | 313 | 305 | 291 | 273 | 291 | 293 | 311 | 322 | 388 | 335 |

See explanatory information, if any, and SOURCE at end of table.

## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Non-U.S. citizens with temporary visas, Hispanic | | | | | | | | | |
| Science and engineering, total | 290 | 289 | 292 | 311 | 301 | 359 | 367 | 361 | 386 | 349 |
| Engineering, total | 60 | 63 | 61 | 70 | 74 | 68 | 66 | 78 | 93 | 72 |
| Chemical | 10 | 8 | 15 | 12 | 9 | 10 | 14 | 16 | 19 | 8 |
| Civil | 13 | 15 | 18 | 11 | 15 | 13 | 14 | 13 | 17 | 12 |
| Electrical | 6 | 6 | 6 | 10 | 10 | 18 | 15 | 15 | 14 | 20 |
| Mechanical | 9 | 8 | 6 | 10 | 14 | 5 | 6 | 11 | 10 | 7 |
| Other engineering | 22 | 26 | 16 | 27 | 26 | 22 | 17 | 23 | 33 | 25 |
| Sciences, total | 230 | 226 | 231 | 241 | 227 | 291 | 301 | 283 | 293 | 277 |
| Physical sciences, total | 48 | 40 | 34 | 28 | 33 | 37 | 42 | 33 | 27 | 21 |
| Astronomy | 3 | 1 | 1 | 1 | 3 | 2 | 1 | 3 | 2 | 2 |
| Chemistry | 22 | 20 | 17 | 15 | 17 | 20 | 21 | 15 | 19 | 9 |
| Physics | 23 | 18 | 16 | 12 | 13 | 15 | 19 | 15 | 6 | 9 |
| Other physical sciences | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Earth, atmospheric, and ocean sciences | 2 | 16 | 12 | 14 | 8 | 10 | 14 | 21 | 22 | 18 |
| Mathematics | 26 | 23 | 24 | 19 | 20 | 33 | 27 | 25 | 24 | 23 |
| Computer sciences | 5 | 6 | 5 | 6 | 9 | 13 | 7 | 6 | 9 | 8 |
| Biological sciences | 36 | 53 | 45 | 56 | 50 | 62 | 68 | 59 | 69 | 78 |
| Agricultural sciences | 42 | 44 | 64 | 55 | 54 | 58 | 47 | 62 | 60 | 58 |
| Psychology | 11 | 9 | 5 | 9 | 8 | 13 | 10 | 8 | 9 | 9 |
| Social sciences | 60 | 35 | 42 | 54 | 45 | 65 | 86 | 69 | 73 | 62 |
| Non-S&E, total | 82 | 49 | 57 | 52 | 85 | 87 | 115 | 93 | 117 | 122 |
| Health | 8 | 7 | 3 | 4 | 9 | 7 | 12 | 11 | 10 | 10 |
| Humanities[1] | 20 | 20 | 26 | 18 | 43 | 47 | 51 | 43 | 65 | 76 |
| Education | 43 | 10 | 21 | 22 | 18 | 23 | 34 | 19 | 30 | 22 |
| Professional other | 11 | 12 | 7 | 8 | 15 | 10 | 18 | 20 | 12 | 14 |
| Grand total, all fields | 372 | 338 | 349 | 363 | 386 | 446 | 482 | 454 | 503 | 471 |
| | Non-U.S. citizens with temporary visas, white | | | | | | | | | |
| Science and engineering, total | 1,144 | 1,176 | 1,273 | 1,380 | 1,502 | 1,642 | 1,696 | 1,761 | 1,850 | 1,801 |
| Engineering, total | 348 | 375 | 411 | 491 | 549 | 531 | 556 | 559 | 599 | 547 |
| Chemical | 34 | 41 | 35 | 57 | 58 | 48 | 68 | 62 | 74 | 62 |
| Civil | 57 | 71 | 88 | 96 | 82 | 113 | 121 | 107 | 121 | 90 |
| Electrical | 109 | 90 | 109 | 133 | 154 | 139 | 153 | 149 | 175 | 157 |
| Mechanical | 62 | 70 | 69 | 88 | 90 | 67 | 85 | 91 | 75 | 77 |
| Other engineering | 86 | 103 | 110 | 117 | 165 | 164 | 129 | 150 | 154 | 161 |
| Sciences, total | 796 | 801 | 862 | 889 | 953 | 1,111 | 1,140 | 1,202 | 1,251 | 1,254 |
| Physical sciences, total | 171 | 187 | 184 | 172 | 174 | 235 | 239 | 251 | 260 | 255 |
| Astronomy | 9 | 7 | 10 | 11 | 11 | 13 | 10 | 12 | 15 | 12 |
| Chemistry | 68 | 77 | 74 | 57 | 62 | 87 | 94 | 100 | 101 | 89 |
| Physics | 93 | 102 | 99 | 103 | 101 | 132 | 132 | 137 | 141 | 148 |
| Other physical sciences | 1 | 1 | 1 | 1 | 0 | 3 | 3 | 2 | 3 | 6 |
| Earth, atmospheric, and ocean sciences | 41 | 39 | 40 | 43 | 54 | 61 | 57 | 61 | 71 | 59 |
| Mathematics | 101 | 102 | 107 | 121 | 119 | 112 | 129 | 150 | 156 | 172 |
| Computer sciences | 39 | 40 | 44 | 42 | 59 | 78 | 88 | 76 | 84 | 107 |
| Biological sciences | 98 | 122 | 129 | 150 | 174 | 216 | 193 | 217 | 235 | 208 |
| Agricultural sciences | 90 | 69 | 91 | 83 | 92 | 86 | 104 | 101 | 97 | 97 |
| Psychology | 42 | 51 | 37 | 56 | 53 | 60 | 73 | 59 | 62 | 56 |
| Social sciences | 214 | 191 | 230 | 222 | 228 | 263 | 257 | 287 | 286 | 300 |
| Non-S&E, total | 363 | 389 | 409 | 374 | 446 | 459 | 539 | 533 | 571 | 555 |
| Health | 29 | 37 | 43 | 38 | 62 | 49 | 53 | 51 | 56 | 67 |
| Humanities[1] | 115 | 121 | 137 | 150 | 162 | 192 | 230 | 195 | 249 | 250 |
| Education | 135 | 129 | 140 | 107 | 130 | 113 | 124 | 142 | 122 | 128 |
| Professional other | 84 | 102 | 89 | 79 | 92 | 105 | 132 | 145 | 144 | 110 |
| Grand total, all fields | 1,507 | 1,565 | 1,682 | 1,754 | 1,948 | 2,101 | 2,235 | 2,294 | 2,421 | 2,356 |

See explanatory information, if any, and SOURCE at end of table.

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## Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Non-U.S. citizens with temporary visas, male | | | | | | | | | |
| Science and engineering, total | 3,619 | 3,904 | 4,254 | 4,609 | 5,590 | 6,413 | 6,741 | 6,658 | 6,201 | 5,745 |
| Engineering, total | 1,323 | 1,478 | 1,651 | 1,850 | 2,157 | 2,485 | 2,574 | 2,623 | 2,475 | 2,364 |
| Chemical | 185 | 208 | 226 | 225 | 234 | 259 | 308 | 309 | 301 | 297 |
| Civil | 195 | 227 | 252 | 250 | 271 | 337 | 330 | 358 | 360 | 314 |
| Electrical | 308 | 299 | 408 | 469 | 573 | 659 | 679 | 660 | 679 | 668 |
| Mechanical | 228 | 298 | 324 | 349 | 452 | 473 | 518 | 535 | 445 | 424 |
| Other engineering | 407 | 446 | 441 | 557 | 627 | 757 | 739 | 761 | 690 | 661 |
| Sciences, total | 2,296 | 2,426 | 2,603 | 2,759 | 3,433 | 3,928 | 4,167 | 4,035 | 3,726 | 3,381 |
| Physical sciences, total | 653 | 706 | 743 | 743 | 895 | 1,041 | 1,098 | 1,015 | 908 | 770 |
| Astronomy | 15 | 19 | 18 | 22 | 28 | 30 | 24 | 32 | 28 | 24 |
| Chemistry | 321 | 340 | 366 | 355 | 421 | 547 | 556 | 503 | 440 | 378 |
| Physics | 308 | 344 | 354 | 365 | 441 | 460 | 510 | 477 | 433 | 360 |
| Other physical sciences | 9 | 3 | 5 | 1 | 5 | 4 | 8 | 3 | 7 | 8 |
| Earth, atmospheric, and ocean sciences | 84 | 109 | 119 | 109 | 153 | 165 | 198 | 202 | 158 | 150 |
| Mathematics | 234 | 260 | 262 | 299 | 363 | 420 | 427 | 422 | 364 | 304 |
| Computer sciences | 119 | 138 | 168 | 160 | 256 | 317 | 329 | 322 | 302 | 322 |
| Biological sciences | 280 | 333 | 385 | 400 | 582 | 694 | 787 | 809 | 704 | 635 |
| Agricultural sciences | 278 | 248 | 295 | 300 | 359 | 366 | 391 | 357 | 366 | 340 |
| Psychology | 47 | 48 | 48 | 60 | 62 | 77 | 81 | 64 | 71 | 78 |
| Social sciences | 601 | 584 | 583 | 688 | 763 | 848 | 856 | 844 | 853 | 782 |
| Non-S&E, total | 795 | 818 | 880 | 835 | 1,042 | 1,105 | 1,222 | 1,207 | 1,129 | 1,108 |
| Health | 73 | 61 | 75 | 87 | 101 | 101 | 159 | 138 | 115 | 142 |
| Humanities[1] | 149 | 169 | 180 | 171 | 211 | 255 | 280 | 278 | 297 | 310 |
| Education | 320 | 270 | 308 | 264 | 306 | 288 | 299 | 306 | 269 | 244 |
| Professional/other | 253 | 318 | 317 | 313 | 424 | 461 | 484 | 485 | 448 | 412 |
| Grand total, all fields | 4,414 | 4,722 | 5,134 | 5,444 | 6,632 | 7,518 | 7,963 | 7,865 | 7,330 | 6,853 |
| | Non-U.S. citizens with temporary visas, female | | | | | | | | | |
| Science and engineering, total | 541 | 564 | 682 | 782 | 981 | 1,229 | 1,351 | 1,455 | 1,320 | 1,247 |
| Engineering, total | 49 | 54 | 70 | 90 | 120 | 149 | 169 | 161 | 178 | 159 |
| Chemical | 14 | 8 | 10 | 11 | 16 | 22 | 31 | 27 | 35 | 21 |
| Civil | 4 | 6 | 14 | 12 | 13 | 16 | 27 | 22 | 25 | 23 |
| Electrical | 12 | 11 | 11 | 29 | 29 | 31 | 46 | 43 | 56 | 44 |
| Mechanical | 3 | 5 | 9 | 9 | 13 | 20 | 20 | 19 | 14 | 13 |
| Other engineering | 16 | 24 | 26 | 29 | 49 | 60 | 45 | 50 | 48 | 58 |
| Sciences, total | 492 | 510 | 612 | 692 | 861 | 1,080 | 1,182 | 1,294 | 1,142 | 1,088 |
| Physical sciences, total | 114 | 95 | 127 | [illegible] | 178 | 216 | 248 | 248 | 199 | 160 |
| Astronomy | 2 | 4 | 2 | [illegible] | 2 | 7 | 4 | 2 | 4 | 4 |
| Chemistry | 72 | 59 | 76 | 106 | 109 | 142 | 173 | 172 | 157 | 115 |
| Physics | 40 | 32 | 49 | 36 | 66 | 65 | 71 | 73 | 38 | 39 |
| Other physical sciences | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 1 | 0 | 2 |
| Earth, atmospheric, and ocean sciences | 13 | 13 | 13 | 13 | 18 | 20 | 38 | 33 | 39 | 22 |
| Mathematics | 38 | 42 | 43 | 47 | 61 | 86 | 84 | 95 | 84 | 78 |
| Computer sciences | 4 | 5 | 8 | 18 | 15 | 23 | 36 | 26 | 41 | 43 |
| Biological sciences | 111 | 159 | 172 | 208 | 271 | 365 | 372 | 437 | 354 | 336 |
| Agricultural sciences | 42 | 41 | 50 | 55 | 81 | 69 | 81 | 90 | 87 | 89 |
| Psychology | 34 | 37 | 36 | 46 | 55 | 56 | 75 | 84 | 80 | 84 |
| Social sciences | 136 | 118 | 163 | 158 | 182 | 245 | 248 | 281 | 258 | 276 |
| Non-S&E, total | 321 | 326 | 379 | 422 | 480 | 565 | 639 | 614 | 756 | 706 |
| Health | 26 | 35 | 43 | 47 | 65 | 70 | 67 | 76 | 115 | 103 |
| Humanities[1] | 100 | 83 | 110 | 112 | 143 | 189 | 215 | 191 | 235 | 239 |
| Education | 151 | 151 | 173 | 188 | 195 | 215 | 254 | 240 | 268 | 257 |
| Professional/other | 44 | 57 | 53 | 75 | 77 | 91 | 103 | 107 | 138 | 107 |
| Grand total, all fields | 862 | 890 | 1,061 | 1,204 | 1,461 | 1,794 | 1,990 | 2,069 | 2,076 | 1,953 |

[1] Categories differ from those published by other Federal sponsors and the National Research Council in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

**NOTE:** Details may not add to totals because of persons with unknown race/ethnicity.

**SOURCE:** National Science Foundation/SRS, Survey of Earned Doctorates

## Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Total | | | | | | | | | |
| Science and engineering, total | 19,437 | 19,894 | 20,933 | 21,731 | 22,867 | 24,019 | 24,673 | 25,441 | 26,202 | 26,515 |
| Engineering, total | 3,376 | 3,712 | 4,187 | 4,543 | 4,894 | 5,215 | 5,438 | 5,698 | 5,822 | 6,007 |
| Aeronautical/astronautical | 118 | 142 | 150 | 178 | 192 | 207 | 234 | 228 | 230 | 251 |
| Chemical | 531 | 584 | 685 | 712 | 658 | 691 | 725 | 737 | 725 | 708 |
| Civil | 429 | 477 | 531 | 538 | 553 | 575 | 594 | 624 | 684 | 656 |
| Electrical | 806 | 779 | 1,010 | 1,137 | 1,276 | 1,405 | 1,483 | 1,543 | 1,673 | 1,731 |
| Industrial | 101 | 120 | 127 | 162 | 151 | 165 | 196 | 236 | 228 | 283 |
| Materials/metallurgical | 305 | 392 | 374 | 380 | 440 | 489 | 485 | 535 | 539 | 588 |
| Mechanical | 536 | 657 | 715 | 760 | 884 | 875 | 987 | 1,030 | 1,015 | 1,024 |
| Other engineering | 550 | 561 | 595 | 676 | 740 | 808 | 734 | 765 | 728 | 766 |
| Sciences, total | 16,061 | 16,182 | 16,746 | 17,188 | 17,973 | 18,804 | 19,235 | 19,743 | 20,380 | 20,508 |
| Physical sciences, total | 3,120 | 3,238 | 3,350 | [illegible] | 3,524 | 3,625 | 3,780 | 3,699 | 3,977 | 3,840 |
| Astronomy | 109 | 100 | 130 | [illegible] | 128 | 125 | 134 | 145 | 144 | 173 |
| Chemistry | 1,903 | 1,975 | 2,015 | 1,970 | 2,100 | 2,193 | 2,213 | 2,137 | 2,257 | 2,161 |
| Physics | 1,078 | 1,137 | 1,172 | 1,161 | 1,265 | 1,286 | 1,403 | 1,399 | 1,548 | 1,479 |
| Other physical sciences | 30 | 26 | 33 | 17 | 31 | 21 | 30 | 18 | 28 | 27 |
| Earth, atmospheric, and ocean sciences | 559 | 602 | 695 | 723 | 738 | 815 | 794 | 771 | 824 | 778 |
| Mathematics | 729 | 740 | 749 | 859 | 892 | 1,039 | 1,058 | 1,146 | 1,118 | 1,190 |
| Computer sciences | 399 | 450 | 515 | 612 | 705 | 800 | 869 | 880 | 903 | 998 |
| Biological sciences | 3,807 | 3,839 | 4,112 | 4,115 | 4,327 | 4,646 | 4,798 | 5,091 | 5,200 | 5,370 |
| Agricultural sciences | 997 | 976 | 1,015 | 1,086 | 1,174 | 1,073 | 1,063 | 968 | 1,078 | 1,036 |
| Psychology | 3,126 | 3,173 | 3,074 | 3,208 | 3,281 | 3,250 | 3,263 | 3,419 | 3,380 | 3,419 |
| Social sciences | 3,324 | 3,164 | 3,236 | 3,324 | 3,332 | 3,556 | 3,610 | 3,769 | 3,900 | 3,877 |
| Non-S&E, total | 12,465 | 12,476 | 12,568 | 12,595 | 13,200 | 13,503 | 14,183 | 14,330 | 14,815 | 15,095 |
| Health | 770 | 800 | 882 | 974 | 956 | 1,041 | 1,112 | 1,197 | 1,296 | 1,331 |
| Humanities [1] | 3,152 | 3,170 | 3,274 | 3,242 | 3,535 | 3,720 | 4,037 | 4,095 | 4,376 | 4,690 |
| Education | 6,649 | 6,454 | 6,362 | 6,281 | 6,511 | 6,446 | 6,644 | 6,661 | 6,695 | 6,546 |
| Professional/other | 1,894 | 2,052 | 2,050 | [illegible] | 2,198 | 2,296 | 2,390 | 2,377 | 2,448 | 2,528 |
| Grand total, all fields | 31,902 | 32,370 | 33,501 | [illegible] | 36,067 | 37,522 | 38,856 | 39,771 | 41,017 | 41,610 |
| | Citizenship known | | | | | | | | | |
| Science and engineering, total | 18,176 | 18,523 | 19,435 | 19,982 | 21,934 | 23,551 | 24,032 | 24,683 | 25,705 | 25,953 |
| Engineering, total | 3,098 | 3,445 | 3,867 | 4,169 | 4,623 | 5,108 | 5,263 | 5,481 | 5,706 | 5,859 |
| Aeronautical/astronautical | 105 | 131 | 129 | 166 | 176 | 205 | 215 | 219 | 226 | 247 |
| Chemical | 497 | 566 | 644 | 680 | 642 | 680 | 717 | 713 | 716 | 699 |
| Civil | 391 | 436 | 499 | 509 | 525 | 566 | 572 | 607 | 677 | 646 |
| Electrical | 730 | 703 | 922 | 1,037 | 1,201 | 1,376 | 1,444 | 1,498 | 1,634 | 1,683 |
| Industrial | 99 | 113 | 117 | 150 | 148 | 162 | 192 | 230 | 228 | 279 |
| Materials/metallurgical | 289 | 373 | 352 | 347 | 424 | 481 | 469 | 516 | 530 | 574 |
| Mechanical | 498 | 611 | 660 | 683 | 833 | 852 | 964 | 988 | 997 | 995 |
| Other engineering | 489 | 512 | 544 | 597 | 674 | 786 | 690 | 710 | 698 | 736 |
| Sciences, total | 15,078 | 15,078 | 15,568 | [illegible] | 17,311 | 18,443 | 18,769 | 19,202 | 19,999 | 20,094 |
| Physical sciences, total | 2,933 | 3,043 | 3,128 | 3,021 | 3,414 | 3,556 | 3,702 | 3,593 | 3,896 | 3,770 |
| Astronomy | 108 | 96 | 124 | 108 | 126 | 123 | 134 | 145 | 144 | 169 |
| Chemistry | 1,806 | 1,871 | 1,893 | 1,844 | 2,027 | 2,149 | 2,169 | 2,075 | 2,213 | 2,116 |
| Physics | 991 | 1,058 | 1,084 | 1,055 | 1,232 | 1,264 | 1,371 | 1,356 | 1,515 | 1,458 |
| Other physical sciences | 28 | 18 | 27 | 14 | 29 | 20 | 28 | 17 | 24 | 27 |
| Earth, atmospheric, and ocean sciences | 524 | 557 | 652 | 669 | 706 | 803 | 777 | 739 | 810 | 765 |
| Mathematics | 674 | 698 | 691 | 774 | 846 | 1,024 | 1,018 | 1,107 | 1,105 | 1,153 |
| Computer sciences | 372 | 418 | 502 | 574 | 674 | 791 | 854 | 857 | 886 | 982 |
| Biological sciences | 3,632 | 3,633 | 3,880 | 3,907 | 4,232 | 4,580 | 4,726 | 4,997 | 5,143 | 5,292 |
| Agricultural sciences | 946 | 921 | 955 | 1,006 | 1,127 | 1,055 | 1,045 | 953 | 1,069 | 1,027 |
| Psychology | 2,913 | 2,891 | 2,813 | 2,843 | 3,109 | 3,151 | 3,142 | 3,307 | 3,288 | 3,331 |
| Social sciences | 3,084 | 2,917 | 2,947 | 3,019 | 3,203 | 3,483 | 3,505 | 3,649 | 3,802 | 3,774 |
| Non-S&E, total | 11,619 | 11,651 | 11,673 | 11,692 | 12,762 | 13,179 | 13,877 | 13,926 | 14,578 | 14,763 |
| Health | 702 | 742 | 810 | 890 | 922 | 1,010 | 1,081 | 1,153 | 1,280 | 1,290 |
| Humanities [1] | 2,914 | 2,924 | 3,049 | 2,999 | 3,436 | 3,638 | 3,935 | 3,981 | 4,297 | 4,602 |
| Education | 6,273 | 6,086 | 5,958 | 5,862 | 6,289 | 6,284 | 6,538 | 6,486 | 6,587 | 6,396 |
| Professional/other | 1,730 | 1,899 | 1,856 | 1,941 | 2,115 | 2,247 | 2,323 | 2,306 | 2,414 | 2,475 |
| Grand total, all fields | 29,795 | 30,174 | 31,108 | 31,674 | 34,696 | 36,730 | 37,909 | 38,609 | 40,283 | 40,716 |

See explanatory information, if any, and SOURCE at end of table.

## Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens | | | | | | | | | |
| Science and engineering, total | 13,022 | 12,966 | 13,369 | 13,467 | 14,166 | 14,624 | 14,558 | 14,929 | 15,162 | 15,460 |
| Engineering, total | 1,383 | 1,558 | 1,780 | 1,864 | 1,957 | 2,086 | 2,109 | 2,228 | 2,215 | 2,382 |
| Aeronautical/astronautical | 40 | 64 | 67 | 74 | 82 | 103 | 95 | 114 | 110 | 140 |
| Chemical | 241 | 294 | 358 | 382 | 342 | 348 | 318 | 324 | 293 | 291 |
| Civil | 139 | 162 | 187 | 188 | 180 | 173 | 164 | 168 | 203 | 206 |
| Electrical | 327 | 320 | 398 | 440 | 491 | 554 | 597 | 630 | 634 | 683 |
| Industrial | 33 | 44 | 40 | 51 | 56 | 50 | 54 | 89 | 89 | 108 |
| Materials/metallurgical | 119 | 176 | 172 | 173 | 190 | 211 | 202 | 228 | 218 | 238 |
| Mechanical | 209 | 241 | 256 | 259 | 299 | 297 | 352 | 347 | 359 | 379 |
| Other engineering | 275 | 257 | 302 | 297 | 317 | 350 | 327 | 328 | 309 | 337 |
| Sciences, total | 11,639 | 11,408 | 11,589 | 11,603 | 12,209 | 12,538 | 12,449 | 12,701 | 12,947 | 13,078 |
| Physical sciences, total | 2,032 | 2,095 | 2,119 | 1,984 | 2,169 | 2,119 | 2,157 | 2,093 | 2,198 | 2,136 |
| Astronomy | 88 | 72 | 97 | 78 | 92 | 84 | 100 | 106 | 103 | 120 |
| Chemistry | 1,320 | 1,381 | 1,378 | 1,298 | 1,398 | 1,350 | 1,328 | 1,272 | 1,291 | 1,237 |
| Physics | 606 | 627 | 626 | 597 | 660 | 671 | 709 | 704 | 789 | 764 |
| Other physical sciences | 18 | 15 | 18 | 11 | 19 | 14 | 20 | 11 | 15 | 15 |
| Earth, atmospheric, and ocean sciences | 404 | 410 | 493 | 518 | 516 | 592 | 506 | 463 | 507 | 478 |
| Mathematics | 366 | 345 | 342 | 393 | 375 | 463 | 454 | 496 | 504 | 554 |
| Computer sciences | 202 | 243 | 284 | 338 | 348 | 388 | 422 | 425 | 426 | 484 |
| Biological sciences | 3,124 | 2,981 | 3,131 | 3,117 | 3,190 | 3,310 | 3,327 | 3,448 | 3,418 | 3,489 |
| Agricultural sciences | 579 | 584 | 539 | 606 | 630 | 564 | 511 | 457 | 519 | 492 |
| Psychology | 2,767 | 2,747 | 2,668 | 2,683 | 2,919 | 2,953 | 2,900 | 3,069 | 3,053 | 3,068 |
| Social sciences | 2,165 | 2,003 | 2,013 | 1,964 | 2,062 | 2,149 | 2,172 | 2,250 | 2,322 | 2,377 |
| Non-S&E, total | 10,064 | 10,018 | 9,922 | 9,933 | 10,739 | 10,937 | 11,419 | 11,491 | 11,967 | 12,143 |
| Health | 568 | 606 | 657 | 729 | 721 | 779 | 809 | 879 | 961 | 938 |
| Humanities [1] | 2,528 | 2,509 | 2,609 | 2,530 | 2,899 | 2,975 | 3,211 | 3,274 | 3,485 | 3,745 |
| Education | 5,629 | 5,493 | 5,300 | 5,246 | 5,635 | 5,607 | 5,820 | 5,765 | 5,851 | 5,680 |
| Professional/other | 1,339 | 1,410 | 1,356 | 1,428 | 1,484 | 1,576 | 1,579 | 1,573 | 1,670 | 1,780 |
| Grand total, all fields | 23,086 | 22,984 | 23,291 | 23,400 | 24,905 | 25,561 | 25,977 | 26,420 | 27,129 | 27,603 |
| | Non-U.S. citizens | | | | | | | | | |
| Science and engineering, total | 5,154 | 5,557 | 6,066 | 6,515 | 7,768 | 8,927 | 9,474 | 9,754 | 10,543 | 10,493 |
| Engineering, total | 1,715 | 1,887 | 2,087 | 2,305 | 2,666 | 3,022 | 3,154 | 3,253 | 3,491 | 3,477 |
| Aeronautical/astronautical | 65 | 67 | 62 | 92 | 94 | 102 | 120 | 105 | 116 | 107 |
| Chemical | 256 | 272 | 286 | 298 | 300 | 332 | 399 | 389 | 423 | 408 |
| Civil | 252 | 274 | 312 | 321 | 345 | 393 | 408 | 439 | 474 | 440 |
| Electrical | 403 | 383 | 524 | 597 | 710 | 822 | 847 | 868 | 1,000 | 1,000 |
| Industrial | 66 | 69 | 77 | 99 | 92 | 112 | 138 | 141 | 139 | 171 |
| Materials/metallurgical | 170 | 197 | 180 | 174 | 234 | 270 | 267 | 288 | 312 | 336 |
| Mechanical | 289 | 370 | 404 | 424 | 534 | 555 | 612 | 641 | 638 | 616 |
| Other engineering | 214 | 255 | 242 | 300 | 357 | 436 | 363 | 382 | 389 | 399 |
| Sciences, total | 3,439 | 3,670 | 3,979 | 4,210 | 5,102 | 5,905 | 6,320 | 6,501 | 7,052 | 7,016 |
| Physical sciences, total | 901 | 948 | 1,009 | 1,037 | 1,245 | 1,437 | 1,545 | 1,500 | 1,698 | 1,634 |
| Astronomy | 20 | 24 | 27 | 30 | 34 | 39 | 34 | 39 | 41 | 49 |
| Chemistry | 486 | 490 | 515 | 546 | 629 | 799 | 841 | 803 | 922 | 879 |
| Physics | 385 | 431 | 458 | 458 | 572 | 593 | 662 | 652 | 726 | 694 |
| Other physical sciences | 10 | 3 | 9 | 3 | 10 | 6 | 8 | 6 | 9 | 12 |
| Earth, atmospheric, and ocean sciences | 120 | 147 | 159 | 151 | 190 | 211 | 271 | 276 | 303 | 287 |
| Mathematics | 308 | 353 | 349 | 381 | 471 | 561 | 564 | 611 | 601 | 599 |
| Computer sciences | 170 | 175 | 218 | 236 | 326 | 403 | 432 | 432 | 460 | 498 |
| Biological sciences | 508 | 652 | 749 | 790 | 1,042 | 1,270 | 1,399 | 1,549 | 1,725 | 1,803 |
| Agricultural sciences | 367 | 337 | 416 | 400 | 497 | 491 | 534 | 496 | 550 | 535 |
| Psychology | 146 | 144 | 145 | 160 | 190 | 198 | 242 | 238 | 235 | 263 |
| Social sciences | 919 | 914 | 934 | 1,055 | 1,141 | 1,334 | 1,333 | 1,399 | 1,480 | 1,397 |
| Non-S&E, total | 1,555 | 1,633 | 1,751 | 1,759 | 2,023 | 2,242 | 2,458 | 2,435 | 2,611 | 2,620 |
| Health | 134 | 136 | 153 | 161 | 201 | 231 | 272 | 274 | 319 | 352 |
| Humanities [1] | 386 | 415 | 440 | 469 | 537 | 663 | 724 | 707 | 812 | 857 |
| Education | 644 | 593 | 658 | 616 | 654 | 677 | 718 | 721 | 736 | 716 |
| Professional/other | 391 | 489 | 500 | 513 | 631 | 671 | 744 | 733 | 744 | 695 |
| Grand total, all fields | 6,709 | 7,190 | 7,817 | 8,274 | 9,791 | 11,169 | 11,932 | 12,189 | 13,154 | 13,113 |

See explanatory information, if any, and SOURCE at end of table.

## Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Non-U.S. citizens with permanent visas | | | | | | | | | |
| Science and engineering, total | 994 | 1,089 | 1,130 | 1,124 | 1,197 | 1,285 | 1,382 | 1,641 | 3,022 | 3,501 |
| Engineering, total | 343 | 355 | 366 | 365 | 389 | 388 | 411 | 469 | 838 | 954 |
| Aeronautical/astronautical | 5 | 8 | 14 | 8 | 8 | 11 | 8 | 6 | 20 | 13 |
| Chemical | 57 | 56 | 50 | 62 | 50 | 51 | 60 | 53 | 87 | 90 |
| Civil | 53 | 41 | 46 | 59 | 61 | 40 | 51 | 59 | 89 | 103 |
| Electrical | 83 | 73 | 105 | 99 | 108 | 132 | 122 | 165 | 265 | 288 |
| Industrial | 14 | 13 | 11 | 8 | 13 | 18 | 20 | 16 | 30 | 41 |
| Materials/metallurgical | 33 | 38 | 27 | 21 | 26 | 29 | 34 | 39 | 79 | 113 |
| Mechanical | 58 | 67 | 71 | 66 | 69 | 62 | 74 | 87 | 179 | 179 |
| Other engineering | 40 | 59 | 42 | 42 | 54 | 45 | 42 | 44 | 89 | 127 |
| Sciences, total | 651 | 734 | 764 | 759 | 808 | 897 | 971 | 1,172 | 2,184 | 2,547 |
| Physical sciences, total | 134 | 147 | 139 | 147 | 172 | 180 | 199 | 237 | 591 | 704 |
| Astronomy | 3 | 1 | 7 | 4 | 4 | 2 | 6 | 5 | 9 | 21 |
| Chemistry | 93 | 91 | 73 | 85 | 99 | 110 | 112 | 128 | 325 | 386 |
| Physics | 37 | 55 | 55 | 57 | 65 | 68 | 81 | 102 | 255 | 295 |
| Other physical sciences | 1 | 0 | 4 | 1 | 4 | 0 | 0 | 2 | 2 | 2 |
| Earth, atmospheric, and ocean sciences | 23 | 25 | 27 | 29 | 19 | 26 | 35 | 41 | 106 | 115 |
| Mathematics | 36 | 51 | 44 | 35 | 47 | 55 | 53 | 94 | 153 | 217 |
| Computer sciences | 47 | 32 | 42 | 58 | 55 | 63 | 67 | 84 | 117 | 133 |
| Biological sciences | 117 | 160 | 192 | 182 | 189 | 211 | 240 | 303 | 667 | 832 |
| Agricultural sciences | 47 | 48 | 71 | 45 | 57 | 56 | 62 | 49 | 97 | 106 |
| Psychology | 65 | 59 | 61 | 54 | 73 | 65 | 86 | 90 | 84 | 101 |
| Social sciences | 182 | 212 | 188 | 209 | 196 | 241 | 229 | 274 | 369 | 339 |
| Non-S&E, total | 439 | 489 | 492 | 502 | 501 | 572 | 597 | 614 | 726 | 806 |
| Health | 35 | 40 | 35 | 27 | 35 | 60 | 46 | 60 | 89 | 107 |
| Humanities [1] | 137 | 163 | 150 | 186 | 183 | 219 | 229 | 238 | 280 | 308 |
| Education | 173 | 172 | 177 | 164 | 153 | 174 | 165 | 175 | 199 | 215 |
| Professional/other | 94 | 114 | 130 | 125 | 130 | 119 | 157 | 141 | 158 | 176 |
| Grand total, all fields | 1,433 | 1,578 | 1,622 | 1,626 | 1,698 | 1,857 | 1,979 | 2,255 | 3,748 | 4,307 |
| | Non-U.S. citizens with temporary visas | | | | | | | | | |
| Science and engineering, total | 4,160 | 4,468 | 4,936 | 5,391 | 6,571 | 7,642 | 8,092 | 8,113 | 7,521 | 6,992 |
| Engineering, total | 1,372 | 1,532 | 1,721 | 1,940 | 2,277 | 2,634 | 2,743 | 2,784 | 2,653 | 2,523 |
| Aeronautical/astronautical | 60 | 59 | 48 | 84 | 86 | 91 | 112 | 99 | 96 | 94 |
| Chemical | 199 | 216 | 236 | 236 | 250 | 281 | 339 | 336 | 336 | 318 |
| Civil | 199 | 233 | 266 | 262 | 284 | 353 | 357 | 380 | 385 | 337 |
| Electrical | 320 | 310 | 419 | 498 | 602 | 690 | 725 | 703 | 735 | 712 |
| Industrial | 52 | 56 | 66 | 91 | 79 | 94 | 118 | 125 | 109 | 130 |
| Materials/metallurgical | 137 | 159 | 153 | 153 | 208 | 241 | 233 | 249 | 233 | 223 |
| Mechanical | 231 | 303 | 333 | 358 | 465 | 493 | 538 | 554 | 459 | 437 |
| Other engineering | 174 | 196 | 200 | 258 | 303 | 391 | 321 | 338 | 300 | 272 |
| Sciences, total | 2,788 | 2,936 | 3,215 | 3,451 | 4,294 | 5,008 | 5,349 | 5,329 | 4,868 | 4,469 |
| Physical sciences, total | 767 | 801 | 870 | 890 | 1,073 | 1,257 | 1,346 | 1,263 | 1,107 | 930 |
| Astronomy | 17 | 23 | 20 | 26 | 30 | 37 | 28 | 34 | 32 | 28 |
| Chemistry | 393 | 399 | 442 | 461 | 530 | 689 | 729 | 675 | 597 | 493 |
| Physics | 348 | 376 | 403 | 401 | 507 | 525 | 581 | 550 | 471 | 399 |
| Other physical sciences | 9 | 3 | 5 | 2 | 6 | 6 | 8 | 4 | 7 | 10 |
| Earth, atmospheric, and ocean sciences | 97 | 122 | 132 | 122 | 171 | 185 | 236 | 235 | 197 | 172 |
| Mathematics | 272 | 302 | 305 | 346 | 424 | 506 | 511 | 517 | 448 | 382 |
| Computer sciences | 123 | 143 | 176 | 178 | 271 | 340 | 365 | 348 | 343 | 365 |
| Biological sciences | 391 | 492 | 557 | 608 | 853 | 1,059 | 1,159 | 1,246 | 1,058 | 971 |
| Agricultural sciences | 320 | 289 | 345 | 355 | 440 | 435 | 472 | 447 | 453 | 429 |
| Psychology | 81 | 85 | 84 | 106 | 117 | 133 | 156 | 148 | 151 | 162 |
| Social sciences | 737 | 702 | 746 | 846 | 945 | 1,093 | 1,104 | 1,125 | 1,111 | 1,058 |
| Non-S&E, total | 1,116 | 1,144 | 1,259 | 1,257 | 1,522 | 1,670 | 1,861 | 1,821 | 1,885 | 1,814 |
| Health | 99 | 96 | 118 | 134 | 166 | 171 | 226 | 214 | 230 | 245 |
| Humanities [1] | 249 | 252 | 290 | 283 | 354 | 444 | 495 | 469 | 532 | 549 |
| Education | 471 | 421 | 481 | 452 | 501 | 503 | 553 | 546 | 537 | 501 |
| Professional/other | 297 | 375 | 370 | 388 | 501 | 552 | 587 | 592 | 586 | 519 |
| Grand total, all fields | 5,276 | 5,612 | 6,195 | 6,648 | 8,093 | 9,312 | 9,953 | 9,934 | 9,406 | 8,806 |

See explanatory information, if any, and SOURCE at end of table.

## Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Citizenship unknown | | | | | | | | | |
| Science and engineering, total | 1,261 | 1,371 | 1,498 | 1,749 | 933 | 468 | 641 | 758 | 497 | 562 |
| Engineering, total | 278 | 267 | 320 | 374 | 271 | 107 | 175 | 217 | 116 | 148 |
| Aeronautical/astronautical | 13 | 11 | 21 | 12 | 16 | 2 | 19 | 9 | 4 | 4 |
| Chemical | 34 | 18 | 41 | 32 | 16 | 11 | 8 | 24 | 9 | 9 |
| Civil | 38 | 41 | 32 | 29 | 28 | 9 | 22 | 17 | 7 | 10 |
| Electrical | 76 | 76 | 88 | 100 | 75 | 29 | 39 | 45 | 39 | 48 |
| Industrial | 2 | 7 | 10 | 12 | 3 | 3 | 4 | 6 | 0 | 4 |
| Materials/metallurgical | 16 | 19 | 22 | 33 | 16 | 8 | 16 | 19 | 9 | 14 |
| Mechanical | 38 | 46 | 55 | 77 | 51 | 23 | 23 | 42 | 18 | 29 |
| Other engineering | 61 | 49 | 51 | 79 | 66 | 22 | 44 | 55 | 30 | 30 |
| Sciences, total | 983 | 1,104 | 1,178 | 1,375 | 662 | 361 | 466 | 541 | 381 | 414 |
| Physical sciences, total | 187 | 195 | 222 | 240 | 110 | 69 | 78 | 106 | 81 | 70 |
| Astronomy | 1 | 4 | 6 | 5 | 2 | 2 | 0 | 0 | 0 | 4 |
| Chemistry | 97 | 104 | 122 | 126 | 73 | 44 | 44 | 62 | 44 | 45 |
| Physics | 87 | 79 | 88 | 106 | 33 | 22 | 32 | 43 | 33 | 21 |
| Other physical sciences | 2 | 8 | 6 | 3 | 2 | 1 | 2 | 1 | 4 | 0 |
| Earth, atmospheric, and ocean sciences | 35 | 45 | 43 | 54 | 32 | 12 | 17 | 32 | 14 | 13 |
| Mathematics | 55 | 42 | 58 | 85 | 46 | 15 | 40 | 39 | 13 | 37 |
| Computer sciences | 27 | 32 | 13 | 38 | 31 | 9 | 15 | 23 | 17 | 16 |
| Biological sciences | 175 | 206 | 232 | 208 | 95 | 66 | 72 | 94 | 57 | 78 |
| Agricultural sciences | 51 | 55 | 60 | 80 | 47 | 18 | 18 | 15 | 9 | 9 |
| Psychology | 213 | 282 | 261 | 336 | 172 | 99 | 121 | 112 | 92 | 88 |
| Social sciences | 240 | 247 | 289 | 305 | 129 | 73 | 105 | 120 | 98 | 103 |
| Non-S&E, total | 846 | 825 | 895 | 903 | 438 | 324 | 306 | 404 | 237 | 332 |
| Health | 68 | 58 | 72 | 84 | 34 | 31 | 31 | 44 | 16 | 41 |
| Humanities [1] | 238 | 246 | 225 | 243 | 99 | 82 | 102 | 114 | 79 | 88 |
| Education | 376 | 368 | 404 | 419 | 222 | 162 | 106 | 175 | 108 | 150 |
| Professional/other | 164 | 153 | 194 | 157 | 83 | 49 | 67 | 71 | 34 | 53 |
| Grand total, all fields | 2,107 | 2,196 | 2,393 | 2,652 | 1,371 | 792 | 947 | 1,162 | 734 | 894 |

[1] Categories differ from those published by other Federal sponsors and the National Research Council in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

**SOURCE:** National Science Foundation/SRS, Survey of Earned Doctorates

## Table 4a. Percentage distribution of science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Total | | | | | | | | | |
| Science and engineering, total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Engineering, total | 17.4 | 18.7 | 20.0 | 20.9 | 21.4 | 21.7 | 22.0 | 22.4 | 22.2 | 22.7 |
| Aeronautical/astronautical | .6 | .7 | .7 | .8 | .8 | .9 | .9 | .9 | .9 | .9 |
| Chemical | 2.7 | 2.9 | 3.3 | 3.3 | 2.9 | 2.9 | 2.9 | 2.9 | 2.8 | 2.7 |
| Civil | 2.2 | 2.4 | 2.5 | 2.5 | 2.4 | 2.4 | 2.4 | 2.5 | 2.6 | 2.5 |
| Electrical | 4.1 | 3.9 | 4.8 | 5.2 | 5.6 | 5.8 | 6.0 | 6.1 | 6.4 | 6.5 |
| Industrial | .5 | .6 | .6 | .7 | .7 | .7 | .8 | .9 | .9 | 1.1 |
| Materials/metallurgical | 1.6 | 2.0 | 1.8 | 1.7 | 1.9 | 2.0 | 2.0 | 2.1 | 2.1 | 2.2 |
| Mechanical | 2.8 | 3.3 | 3.4 | 3.5 | 3.9 | 3.6 | 4.0 | 4.0 | 3.9 | 3.9 |
| Other engineering | 2.8 | 2.8 | 2.8 | 3.1 | 3.2 | 3.4 | 3.0 | 3.0 | 2.8 | 2.9 |
| Sciences, total | 82.6 | 81.3 | 80.0 | 79.1 | 78.6 | 78.3 | 78.0 | 77.6 | 77.8 | 77.3 |
| Physical sciences, total | 16.1 | 16.3 | 16.0 | 15.0 | 15.4 | 15.1 | 15.3 | 14.5 | 15.2 | 14.5 |
| Astronomy | .6 | .5 | .6 | .5 | .6 | .5 | .5 | .6 | .5 | .7 |
| Chemistry | 9.8 | 9.9 | 9.6 | 9.1 | 9.2 | 9.1 | 9.0 | 8.4 | 8.6 | 8.2 |
| Physics | 5.5 | 5.7 | 5.6 | 5.3 | 5.5 | 5.4 | 5.7 | 5.5 | 5.9 | 5.6 |
| Other physical sciences | .2 | .1 | .2 | .1 | .1 | .1 | .1 | .1 | .1 | .1 |
| Earth, atmospheric, and ocean sciences | 2.9 | 3.0 | 3.3 | 3.3 | 3.2 | 3.4 | 3.2 | 3.0 | 3.1 | 2.9 |
| Mathematics | 3.8 | 3.7 | 3.6 | 4.0 | 3.9 | 4.3 | 4.3 | 4.5 | 4.3 | 4.5 |
| Computer sciences | 2.1 | 2.3 | 2.5 | 2.8 | 3.1 | 3.3 | 3.5 | 3.5 | 3.4 | 3.8 |
| Biological sciences | 19.6 | 19.3 | 19.6 | 18.9 | 18.9 | 19.3 | 19.4 | 20.0 | 19.8 | 20.3 |
| Agricultural sciences | 5.1 | 4.9 | 4.8 | 5.0 | 5.1 | 4.5 | 4.3 | 3.8 | 4.1 | 3.9 |
| Psychology | 16.1 | 15.9 | 14.7 | 14.8 | 14.3 | 13.5 | 13.2 | 13.4 | 12.9 | 12.9 |
| Social sciences | 17.1 | 15.9 | 15.5 | 15.3 | 14.6 | 14.8 | 14.6 | 14.8 | 14.9 | 14.6 |
| | Citizenship known | | | | | | | | | |
| Science and engineering, total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Engineering, total | 17.0 | 18.6 | 19.9 | 20.9 | 21.1 | 21.7 | 21.9 | 22.2 | 22.2 | 22.6 |
| Aeronautical/astronautical | .6 | .7 | .7 | .8 | .8 | .9 | .9 | .9 | .9 | 1.0 |
| Chemical | 2.7 | 3.1 | 3.3 | 3.4 | 2.9 | 2.9 | 3.0 | 2.9 | 2.8 | 2.7 |
| Civil | 2.2 | 2.4 | 2.6 | 2.5 | 2.4 | 2.4 | 2.4 | 2.5 | 2.6 | 2.5 |
| Electrical | 4.0 | 3.8 | 4.7 | 5.2 | 5.5 | 5.8 | 6.0 | 6.1 | 6.4 | 6.5 |
| Industrial | .5 | .6 | .6 | .8 | .7 | .7 | .8 | .9 | .9 | 1.1 |
| Materials/metallurgical | 1.6 | 2.0 | 1.8 | 1.7 | 1.9 | 2.0 | 2.0 | 2.1 | 2.1 | 2.2 |
| Mechanical | 2.7 | 3.3 | 3.4 | 3.4 | 3.8 | 3.6 | 4.0 | 4.0 | 3.9 | 3.8 |
| Other engineering | 2.7 | 2.8 | 2.8 | 3.0 | 3.1 | 3.3 | 2.9 | 2.9 | 2.7 | 2.8 |
| Sciences, total | 83.0 | 81.4 | 80.1 | 79.1 | 78.9 | 78.3 | 78.1 | 77.8 | 77.8 | 77.4 |
| Physical sciences, total | 16.1 | 16.4 | 16.1 | 15.1 | 15.6 | 15.1 | 15.4 | 14.6 | 15.2 | 14.5 |
| Astronomy | .6 | .5 | .6 | .5 | .6 | .5 | .6 | .6 | .6 | .7 |
| Chemistry | 9.9 | 10.1 | 9.7 | 9.2 | 9.2 | 9.1 | 9.0 | 8.4 | 8.6 | 8.2 |
| Physics | 5.5 | 5.7 | 5.6 | 5.3 | 5.6 | 5.4 | 5.7 | 5.5 | 5.9 | 5.6 |
| Other physical sciences | .2 | .1 | .1 | .1 | .1 | .1 | .1 | .1 | .1 | .1 |
| Earth, atmospheric, and ocean sciences | 2.9 | 3.0 | 3.4 | 3.3 | 3.2 | 3.4 | 3.2 | 3.0 | 3.2 | 2.9 |
| Mathematics | 3.7 | 3.8 | 3.6 | 3.9 | 3.9 | 4.3 | 4.2 | 4.5 | 4.3 | 4.4 |
| Computer sciences | 2.0 | 2.3 | 2.6 | 2.9 | 3.1 | 3.4 | 3.6 | 3.5 | 3.4 | 3.8 |
| Biological sciences | 20.0 | 19.6 | 20.0 | 19.6 | 19.3 | 19.4 | 19.7 | 20.2 | 20.0 | 20.4 |
| Agricultural sciences | 5.2 | 5.0 | 4.9 | 5.0 | 5.1 | 4.5 | 4.3 | 3.9 | 4.2 | 4.0 |
| Psychology | 16.0 | 15.6 | 14.5 | 14.2 | 14.2 | 13.4 | 13.1 | 13.4 | 12.8 | 12.8 |
| Social sciences | 17.0 | 15.7 | 15.2 | 15.1 | 14.6 | 14.8 | 14.6 | 14.8 | 14.8 | 14.5 |

See explanatory information, if any, and SOURCE at end of table.

## Table 4a. Percentage distribution of science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | U.S. citizens | | | | | | | | | |
| Science and engineering, total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Engineering, total | 10.6 | 12.0 | 13.3 | 13.8 | 13.8 | 14.3 | 14.5 | 14.9 | 14.6 | 15.4 |
| Aeronautical/astronautical | .3 | .5 | .5 | .5 | .6 | .7 | .7 | .8 | .7 | .9 |
| Chemical | 1.9 | 2.3 | 2.7 | 2.8 | 2.4 | 2.4 | 2.2 | 2.2 | 1.9 | 1.9 |
| Civil | 1.1 | 1.2 | 1.4 | 1.4 | 1.3 | 1.2 | 1.1 | 1.1 | 1.3 | 1.3 |
| Electrical | 2.5 | 2.5 | 3.0 | 3.3 | 3.5 | 3.8 | 4.1 | 4.2 | 4.2 | 4.4 |
| Industrial | .3 | .3 | .3 | .4 | .4 | .3 | .4 | .6 | .6 | .7 |
| Materials/metallurgical | .9 | 1.4 | 1.3 | 1.3 | 1.3 | 1.4 | 1.4 | 1.5 | 1.4 | 1.5 |
| Mechanical | 1.6 | 1.9 | 1.9 | 1.9 | 2.1 | 2.0 | 2.4 | 2.3 | 2.4 | 2.5 |
| Other engineering | 2.1 | 2.0 | 2.3 | 2.2 | 2.2 | 2.4 | 2.2 | 2.2 | 2.0 | 2.2 |
| Sciences, total | 89.4 | 88.0 | 86.7 | 86.2 | 86.2 | 85.7 | 85.5 | 85.1 | 85.4 | 84.6 |
| Physical sciences, total | 15.6 | 16.2 | 15.9 | 14.7 | 15.3 | 14.5 | 14.8 | 14.0 | 14.5 | 13.8 |
| Astronomy | .7 | .6 | .7 | .6 | .6 | .6 | .7 | .7 | .7 | .8 |
| Chemistry | 10.1 | 10.7 | 10.3 | 9.6 | 9.9 | 9.2 | 9.1 | 8.5 | 8.5 | 8.0 |
| Physics | 4.7 | 4.8 | 4.7 | 4.4 | 4.7 | 4.6 | 4.9 | 4.7 | 5.2 | 4.9 |
| Other physical sciences | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Earth, atmospheric, and ocean sciences | 3.1 | 3.2 | 3.7 | 3.8 | 3.6 | 4.0 | 3.5 | 3.1 | 3.3 | 3.1 |
| Mathematics | 2.8 | 2.7 | 2.6 | 2.9 | 2.6 | 3.2 | 3.1 | 3.3 | 3.3 | 3.6 |
| Computer sciences | 1.6 | 1.9 | 2.1 | 2.5 | 2.5 | 2.7 | 2.9 | 2.8 | 2.8 | 3.1 |
| Biological sciences | 24.0 | 23.0 | 23.4 | 23.1 | 22.5 | 22.6 | 22.9 | 23.1 | 22.5 | 22.6 |
| Agricultural sciences | 4.4 | 4.5 | 4.0 | 4.5 | 4.4 | 3.9 | 3.5 | 3.1 | 3.4 | 3.2 |
| Psychology | 21.2 | 21.2 | 20.0 | 19.9 | 20.6 | 20.2 | 19.9 | 20.6 | 20.1 | 19.8 |
| Social sciences | 16.6 | 15.4 | 15.1 | 14.6 | 14.6 | 14.7 | 14.9 | 15.1 | 15.3 | 15.4 |
| | Non-U.S. citizens | | | | | | | | | |
| Science and engineering, total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Engineering, total | 33.3 | 34.0 | 34.4 | 35.4 | 34.3 | 33.9 | 33.3 | 33.4 | 33.1 | 33.1 |
| Aeronautical/astronautical | 1.3 | 1.2 | 1.0 | 1.4 | 1.2 | 1.1 | 1.3 | 1.1 | 1.1 | 1.0 |
| Chemical | 5.0 | 4.9 | 4.7 | 4.6 | 3.9 | 3.7 | 4.2 | 4.0 | 4.0 | 3.9 |
| Civil | 4.9 | 4.9 | 5.1 | 4.9 | 4.4 | 4.4 | 4.3 | 4.5 | 4.5 | 4.2 |
| Electrical | 7.8 | 6.9 | 8.6 | 9.2 | 9.1 | 9.2 | 8.9 | 8.9 | 9.5 | 9.5 |
| Industrial | 1.3 | 1.2 | 1.3 | 1.5 | 1.2 | 1.3 | 1.5 | 1.4 | 1.3 | 1.6 |
| Materials/metallurgical | 3.3 | 3.5 | 3.0 | 2.7 | 3.0 | 3.0 | 2.8 | 3.0 | 3.0 | 3.2 |
| Mechanical | 5.6 | 6.7 | 6.7 | 6.5 | 6.9 | 6.2 | 6.5 | 6.6 | 6.1 | 5.9 |
| Other engineering | 4.2 | 4.6 | 4.0 | 4.6 | 4.6 | 4.9 | 3.8 | 3.9 | 3.7 | 3.8 |
| Sciences, total | 66.7 | 66.0 | 65.6 | 64.6 | 65.7 | 66.1 | 66.7 | 66.6 | 66.9 | 66.9 |
| Physical sciences, total | 17.5 | 17.1 | 16.6 | 15.9 | 16.0 | 16.1 | 16.3 | 15.4 | 16.1 | 15.6 |
| Astronomy | .4 | .4 | .4 | .5 | .4 | .4 | .4 | .4 | .4 | .5 |
| Chemistry | 9.4 | 8.8 | 8.5 | 8.4 | 8.1 | 9.0 | 8.9 | 8.2 | 8.7 | 8.4 |
| Physics | 7.5 | 7.8 | 7.6 | 7.0 | 7.4 | 6.6 | 7.0 | 6.7 | 6.9 | 6.6 |
| Other physical sciences | .2 | .1 | .1 | 0 | .1 | .1 | .1 | .1 | .1 | .1 |
| Earth, atmospheric, and ocean sciences | 2.3 | 2.6 | 2.6 | 2.3 | 2.4 | 2.4 | 2.9 | 2.8 | 2.9 | 2.7 |
| Mathematics | 6.0 | 6.4 | 5.8 | 5.8 | 6.1 | 6.3 | 6.0 | 6.3 | 5.7 | 5.7 |
| Computer sciences | 3.3 | 3.1 | 3.6 | 3.6 | 4.2 | 4.5 | 4.6 | 4.4 | 4.4 | 4.7 |
| Biological sciences | 9.9 | 11.7 | 12.3 | 12.1 | 13.4 | 14.2 | 14.8 | 15.9 | 16.4 | 17.2 |
| Agricultural sciences | 7.1 | 6.1 | 6.9 | 6.1 | 6.4 | 5.5 | 5.6 | 5.1 | 5.2 | 5.1 |
| Psychology | 2.8 | 2.6 | 2.4 | 2.5 | 2.4 | 2.2 | 2.6 | 2.4 | 2.2 | 2.5 |
| Social sciences | 17.8 | 16.4 | 15.4 | 16.2 | 14.7 | 14.9 | 14.1 | 14.3 | 14.0 | 13.3 |

See explanatory information, if any, and SOURCE at end of table.

## Table 4a. Percentage distribution of science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Non-U.S. citizens with permanent visas | | | | | | | | | |
| Science and engineering, total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Engineering, total | 34.5 | 32.6 | 32.4 | 32.5 | 32.5 | 30.2 | 29.7 | 28.6 | 27.7 | 27.2 |
| Aeronautical/astronautical | .5 | .7 | 1.2 | .7 | .7 | .9 | .6 | .4 | .7 | .4 |
| Chemical | 5.7 | 5.1 | 4.4 | 5.5 | 4.2 | 4.0 | 4.3 | 3.2 | 2.9 | 2.6 |
| Civil | 5.3 | 3.8 | 4.1 | 5.2 | 5.1 | 3.1 | 3.7 | 3.6 | 2.9 | 2.9 |
| Electrical | 8.4 | 6.7 | 9.3 | 8.8 | 9.0 | 10.3 | 8.8 | 10.1 | 8.8 | 8.2 |
| Industrial | 1.4 | 1.2 | 1.0 | .7 | 1.1 | 1.4 | 1.4 | 1.0 | 1.0 | 1.2 |
| Materials/metallurgical | 3.3 | 3.5 | 2.4 | 1.9 | 2.2 | 2.3 | 2.5 | 2.4 | 2.6 | 3.2 |
| Mechanical | 5.8 | 6.2 | 6.3 | 5.9 | 5.8 | 4.8 | 5.4 | 5.3 | 5.9 | 5.1 |
| Other engineering | 4.0 | 5.4 | 3.7 | 3.7 | 4.5 | 3.5 | 3.0 | 2.7 | 2.9 | 3.6 |
| Sciences, total | 65.5 | 67.4 | 67.6 | 67.5 | 67.5 | 69.8 | 70.3 | 71.4 | 72.3 | 72.8 |
| Physical sciences, total | 13.5 | 13.5 | 12.3 | 13.1 | 14.4 | 14.0 | 14.4 | 14.4 | 19.6 | 20.1 |
| Astronomy | .3 | .1 | .6 | .4 | .3 | .2 | .4 | .3 | .3 | .6 |
| Chemistry | 9.4 | 8.4 | 6.5 | 7.6 | 8.3 | 8.6 | 8.1 | 7.8 | 10.8 | 11.0 |
| Physics | 3.7 | 5.1 | 4.9 | 5.1 | 5.4 | 5.3 | 5.9 | 6.2 | 8.4 | 8.4 |
| Other physical sciences | .1 | 0 | .4 | .1 | .3 | 0 | 0 | .1 | .1 | .1 |
| Earth, atmospheric, and ocean sciences | 2.3 | 2.3 | 2.4 | 2.6 | 1.6 | 2.0 | 2.5 | 2.5 | 3.5 | 3.3 |
| Mathematics | 3.6 | 4.7 | 3.9 | 3.1 | 3.9 | 4.3 | 3.8 | 5.7 | 5.1 | 6.2 |
| Computer sciences | 4.7 | 2.9 | 3.7 | 3.3 | 4.6 | 4.9 | 4.8 | 5.1 | 3.9 | 3.8 |
| Biological sciences | 11.8 | 14.7 | 17.0 | 16.2 | 15.8 | 16.4 | 17.4 | 18.5 | 22.1 | 23.8 |
| Agricultural sciences | 4.7 | 4.4 | 6.3 | 4.0 | 4.8 | 4.4 | 4.5 | 3.0 | 3.2 | 3.0 |
| Psychology | 6.5 | 5.4 | 5.4 | 4.8 | 6.1 | 5.1 | 6.2 | 5.5 | 2.8 | 2.9 |
| Social sciences | 18.3 | 19.5 | 16.6 | 18.6 | 16.4 | 18.8 | 16.6 | 16.7 | 12.2 | 9.7 |
| | Non-U.S. citizens with temporary visas | | | | | | | | | |
| Science and engineering, total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Engineering, total | 33.0 | 34.3 | 34.9 | 36.0 | 34.7 | 34.5 | 33.9 | 34.3 | 35.3 | 36.1 |
| Aeronautical/astronautical | 1.4 | 1.3 | 1.0 | 1.6 | 1.3 | 1.2 | 1.4 | 1.2 | 1.3 | 1.3 |
| Chemical | 4.8 | 4.8 | 4.8 | 4.4 | 3.8 | 3.7 | 4.2 | 4.1 | 4.5 | 4.5 |
| Civil | 4.8 | 5.2 | 5.4 | 4.9 | 4.3 | 4.6 | 4.4 | 4.7 | 5.1 | 4.8 |
| Electrical | 7.7 | 6.9 | 8.5 | 9.2 | 9.2 | 9.0 | 9.0 | 8.7 | 9.8 | 10.2 |
| Industrial | 1.2 | 1.3 | 1.3 | 1.7 | 1.2 | 1.2 | 1.5 | 1.5 | 1.4 | 1.9 |
| Materials/metallurgical | 3.3 | 3.6 | 3.1 | 2.6 | 3.2 | 3.2 | 2.9 | 3.1 | 3.1 | 3.2 |
| Mechanical | 5.6 | 6.8 | 6.7 | 6.6 | 7.1 | 6.5 | 6.6 | 6.8 | 6.1 | 6.3 |
| Other engineering | 4.2 | 4.4 | 4.1 | 4.8 | 4.6 | 5.1 | 4.0 | 4.2 | 4.0 | 3.9 |
| Sciences, total | 67.0 | 65.7 | 65.1 | 64.0 | 65.3 | 65.5 | 66.1 | 65.7 | 64.7 | 63.9 |
| Physical sciences, total | 18.4 | 17.9 | 17.6 | 16.5 | 16.3 | 16.4 | 16.6 | 15.6 | 14.7 | 13.3 |
| Astronomy | .4 | .5 | .4 | .5 | .5 | .5 | .3 | .4 | .4 | .4 |
| Chemistry | 9.4 | 8.9 | 9.0 | 8.6 | 8.1 | 9.0 | 9.0 | 8.3 | 7.9 | 7.1 |
| Physics | 8.4 | 8.4 | 8.2 | 7.4 | 7.7 | 6.9 | 7.2 | 6.8 | 6.3 | 5.7 |
| Other physical sciences | .2 | .1 | .1 | 0 | .1 | .1 | .1 | 0 | .1 | .1 |
| Earth, atmospheric, and ocean sciences | 2.3 | 2.7 | 2.7 | 2.3 | 2.6 | 2.4 | 2.9 | 2.9 | 2.6 | 2.5 |
| Mathematics | 6.5 | 6.8 | 6.2 | 6.4 | 6.5 | 6.6 | 6.3 | 6.4 | 6.0 | 5.5 |
| Computer sciences | 3.0 | 3.2 | 3.6 | 3.3 | 4.1 | 4.4 | 4.5 | 4.3 | 4.6 | 5.2 |
| Biological sciences | 9.4 | 11.0 | 11.3 | 11.3 | 13.0 | 13.9 | 14.3 | 15.4 | 14.1 | 13.9 |
| Agricultural sciences | 7.7 | 6.5 | 7.0 | 6.6 | 6.7 | 5.7 | 5.8 | 5.5 | 6.0 | 6.1 |
| Psychology | 1.9 | 1.9 | 1.7 | 2.0 | 1.8 | 1.7 | 1.9 | 1.8 | 2.0 | 2.3 |
| Social sciences | 17.7 | 15.7 | 15.1 | 15.7 | 14.4 | 14.3 | 13.6 | 13.9 | 14.8 | 15.1 |

See explanatory information, if any, and SOURCE at end of table.

## Table 4a. Percentage distribution of science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1986-95



| Field of study | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Citizenship unknown | | | | | | | | | |
| Science and engineering, total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Engineering, total | 22.0 | 19.5 | 21.4 | 21.4 | 29.0 | 22.9 | 27.3 | 28.6 | 23.3 | 26.3 |
| Aeronautical/astronautical | 1.0 | .8 | 1.4 | .7 | 1.7 | .4 | 3.0 | 1.2 | .8 | .7 |
| Chemical | 2.7 | 1.3 | 2.7 | 1.8 | 1.7 | 2.4 | 1.2 | 3.2 | 1.8 | 1.6 |
| Civil | 3.0 | 3.0 | 2.1 | 1.7 | 3.0 | 1.9 | 3.4 | 2.2 | 1.4 | 1.8 |
| Electrical | 6.0 | 5.5 | 5.9 | 5.7 | 8.0 | 6.2 | 6.1 | 5.9 | 7.8 | 8.5 |
| Industrial | .2 | .5 | .7 | .7 | .3 | .6 | .6 | .8 | 0 | .7 |
| Materials/metallurgical | 1.3 | 1.4 | 1.5 | 1.9 | 1.7 | 1.7 | 2.5 | 2.5 | 1.8 | 2.5 |
| Mechanical | 3.0 | 3.4 | 3.7 | 4.4 | 5.5 | 4.9 | 3.6 | 5.5 | 3.6 | 5.2 |
| Other engineering | 4.8 | 3.6 | 3.4 | 4.5 | 7.1 | 4.7 | 6.9 | 7.3 | 6.0 | 5.3 |
| Sciences, total | 78.0 | 80.5 | 78.6 | 78.6 | 71.0 | 77.1 | 72.7 | 71.4 | 76.7 | 73.7 |
| Physical sciences, total | 14.8 | 14.2 | 14.8 | 13.7 | 11.8 | 14.7 | 12.2 | 14.0 | 16.3 | 12.5 |
| Astronomy | .1 | .3 | .4 | .3 | .2 | .4 | 0 | 0 | 0 | .7 |
| Chemistry | 7.7 | 7.6 | 8.1 | 7.2 | 7.8 | 9.4 | 6.9 | 8.2 | 8.9 | 8.0 |
| Physics | 6.9 | 5.8 | 5.9 | 6.1 | 3.5 | 4.7 | 5.0 | 5.7 | 6.6 | 3.7 |
| Other physical sciences | .2 | .6 | .4 | .2 | .2 | .2 | .3 | .1 | .8 | 0 |
| Earth, atmospheric, and ocean sciences | 2.8 | 3.3 | 2.9 | 3.1 | 3.4 | 2.6 | 2.7 | 4.2 | 2.8 | 2.3 |
| Mathematics | 4.4 | 3.1 | 3.9 | 4.9 | 4.9 | 3.2 | 6.2 | 5.1 | 2.6 | 6.6 |
| Computer sciences | 2.1 | 2.3 | .9 | 2.2 | 3.3 | 1.9 | 2.3 | 3.0 | 3.4 | 2.8 |
| Biological sciences | 13.9 | 15.0 | 15.5 | 11.9 | 10.2 | 14.1 | 11.2 | 12.4 | 11.5 | 13.9 |
| Agricultural sciences | 4.0 | 4.0 | 4.0 | 4.6 | 5.0 | 3.8 | 2.8 | 2.0 | 1.8 | 1.6 |
| Psychology | 16.9 | 20.6 | 17.4 | 20.9 | 18.4 | 21.2 | 18.9 | 14.8 | 18.5 | 15.7 |
| Social sciences | 19.0 | 18.0 | 19.3 | 17.4 | 13.8 | 15.6 | 16.4 | 15.8 | 19.7 | 18.3 |

**SOURCE:** National Science Foundation/SRS, Survey of Earned Doctorates

## Table 5. Non-U.S. citizens awarded science and engineering (S&E) doctorates, by country of citizenship, visa type, and year of doctorate: 1986-95



| Country of citizenship | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Total non-U.S. citizens, S&E | | | | | | | | | |
| Total foreign citizenship | 5,154 | 5,557 | 6,066 | 6,515 | 7,768 | 8,927 | 9,474 | 9,754 | 10,543 | 10,493 |
| North America, total | 329 | 318 | 355 | 403 | 446 | 525 | 515 | 506 | 547 | 505 |
| Canada | 178 | 181 | 203 | 220 | 253 | 297 | 304 | 285 | 275 | 274 |
| Caribbean | 29 | 23 | 28 | 29 | 36 | 54 | 44 | 38 | 61 | 59 |
| Central America | 25 | 28 | 32 | 34 | 53 | 46 | 52 | 44 | 69 | 43 |
| Mexico | 97 | 86 | 92 | 120 | 104 | 128 | 115 | 139 | 142 | 129 |
| South America, total | 301 | 311 | 294 | 297 | 343 | 387 | 394 | 394 | 408 | 358 |
| Argentina | 40 | 28 | 38 | 43 | 65 | 62 | 86 | 53 | 56 | 49 |
| Brazil | 97 | 112 | 94 | 100 | 100 | 119 | 133 | 151 | 157 | 137 |
| Chile | 44 | 45 | 45 | 47 | 50 | 54 | 48 | 52 | 42 | 38 |
| Colombia | 24 | 27 | 46 | 27 | 40 | 49 | 37 | 35 | 48 | 45 |
| South America, other | 96 | 99 | 71 | 80 | 88 | 103 | 90 | 103 | 105 | 89 |
| Europe, total | 563 | 625 | 691 | 709 | 801 | 972 | 950 | 1,104 | 1,150 | 1,253 |
| Belgium | 20 | 16 | 21 | 15 | 31 | 43 | 42 | 24 | 21 | 32 |
| England, United Kingdom | 78 | 96 | 116 | 96 | 100 | 132 | 137 | 154 | 128 | 132 |
| France | 34 | 48 | 53 | 51 | 65 | 67 | 77 | 93 | 96 | 83 |
| Germany | 62 | 74 | 78 | 102 | 123 | 118 | 124 | 164 | 196 | 208 |
| Europe, other | 369 | 391 | 423 | 445 | 482 | 612 | 570 | 669 | 709 | 798 |
| East Asia, total | 1,670 | 1,970 | 2,242 | 2,563 | 3,604 | 4,487 | 4,864 | 5,010 | 5,484 | 5,483 |
| Taiwan | 709 | 790 | 786 | 857 | 1,012 | 1,127 | 1,242 | 1,213 | 1,301 | 1,239 |
| China, People's Republic of | 198 | 293 | 480 | 620 | 1,150 | 1,793 | 2,045 | 2,227 | 2,531 | 2,751 |
| Hong Kong | 73 | 87 | 81 | 93 | 94 | 121 | 109 | 109 | 95 | 90 |
| Japan | 111 | 83 | 104 | 106 | 147 | 125 | 132 | 132 | 182 | 154 |
| Korea | 402 | 549 | 621 | 753 | 979 | 1,114 | 1,126 | 1,123 | 1,150 | 1,004 |
| Thailand | 109 | 95 | 98 | 76 | 111 | 93 | 87 | 77 | 97 | 113 |
| East Asia, other | 68 | 73 | 72 | 58 | 111 | 114 | 123 | 129 | 128 | 132 |
| West Asia, total | 1,208 | 1,231 | 1,233 | 1,308 | 1,654 | 1,670 | 1,891 | 1,903 | 2,077 | 2,177 |
| India | 469 | 503 | 520 | 536 | 711 | 752 | 861 | 933 | 1,065 | 1,204 |
| Iran | 214 | 182 | 173 | 198 | 258 | 227 | 200 | 203 | 174 | 173 |
| Iraq | 27 | 44 | 36 | 24 | 27 | 24 | 34 | 17 | 22 | 14 |
| Israel | 82 | 67 | 66 | 69 | 79 | 89 | 87 | 89 | 109 | 85 |
| Lebanon | 29 | 43 | 39 | 51 | 45 | 55 | 62 | 50 | 73 | 56 |
| Saudi Arabia | 49 | 50 | 52 | 61 | 63 | 67 | 76 | 46 | 76 | 71 |
| Turkey | 84 | 86 | 81 | 78 | 106 | 100 | 132 | 136 | 144 | 166 |
| West Asia, other | 254 | 256 | 266 | 291 | 365 | 356 | 439 | 429 | 414 | 408 |
| Pacific/Australasia, total | 151 | 137 | 156 | 166 | 175 | 216 | 220 | 227 | 231 | 230 |
| Australia | 34 | 42 | 39 | 41 | 46 | 35 | 40 | 47 | 56 | 60 |
| Indonesia | 41 | 43 | 43 | 52 | 53 | 69 | 78 | 78 | 83 | 83 |
| New Zealand | 17 | 14 | 17 | 27 | 16 | 23 | 16 | 24 | 15 | 26 |
| Philippines | 59 | 36 | 56 | 45 | 59 | 89 | 83 | 74 | 75 | 59 |
| Pacific/Australasia, other | 0 | 2 | 1 | 1 | 1 | 0 | 3 | 4 | 2 | 2 |
| Africa, total | 451 | 408 | 450 | 446 | 539 | 500 | 510 | 474 | 583 | 424 |
| Egypt | 101 | 98 | 115 | 109 | 160 | 112 | 101 | 88 | 104 | 79 |
| Nigeria | 81 | 89 | 87 | 59 | 83 | 83 | 68 | 55 | 60 | 53 |
| Africa, other | 269 | 221 | 248 | 278 | 296 | 305 | 341 | 331 | 419 | 292 |
| Country unknown | 481 | 557 | 645 | 623 | 206 | 170 | 130 | 136 | 63 | 63 |

See explanatory information, if any, and SOURCE at end of table.

## Table 5. Non-U.S. citizens awarded science and engineering (S&E) doctorates, by country of citizenship, visa type, and year of doctorate: 1986-95



| Country of citizenship | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Total non-U.S. citizens, engineering | | | | | | | | | |
| Total foreign citizenship | 1,715 | 1,887 | 2,087 | 2,305 | 2,666 | 3,022 | 3,154 | 3,253 | 3,491 | 3,477 |
| North America, total | 49 | 62 | 63 | 76 | 84 | 84 | 73 | 82 | 90 | 82 |
| Canada | 18 | 29 | 28 | 38 | 41 | 54 | 46 | 42 | 36 | 41 |
| Caribbean | 6 | 6 | 2 | 5 | 7 | 3 | 5 | 4 | 14 | 7 |
| Central America | 5 | 6 | 6 | 5 | 11 | 5 | 6 | 9 | 10 | 8 |
| Mexico | 20 | 21 | 27 | 28 | 25 | 22 | 16 | 27 | 30 | 26 |
| South America, total | 63 | 79 | 69 | 73 | 84 | 86 | 87 | 97 | 111 | 88 |
| Argentina | 10 | 9 | 6 | 6 | 12 | 12 | 14 | 10 | 7 | 7 |
| Brazil | 17 | 38 | 25 | 30 | 31 | 34 | 31 | 46 | 49 | 46 |
| Chile | 8 | 10 | 9 | 9 | 11 | 8 | 10 | 5 | 8 | 8 |
| Colombia | 4 | 7 | 9 | 5 | 8 | 11 | 9 | 8 | 12 | 10 |
| South America, other | 24 | 15 | 20 | 23 | 22 | 21 | 23 | 28 | 35 | 17 |
| Europe, total | 148 | 152 | 171 | 198 | 205 | 200 | 202 | 244 | 257 | 297 |
| Belgium | 4 | 6 | 6 | 5 | 12 | 9 | 10 | 7 | 7 | 12 |
| England, United Kingdom | 12 | 9 | 11 | 14 | 14 | 14 | 17 | 18 | 14 | 20 |
| France | 13 | 16 | 22 | 18 | 27 | 19 | 25 | 32 | 32 | 24 |
| Germany | 10 | 7 | 11 | 17 | 15 | 8 | 18 | 23 | 29 | 37 |
| Europe, other | 109 | 114 | 121 | 144 | 137 | 150 | 132 | 164 | 175 | 204 |
| East Asia, total | 682 | 803 | 889 | 988 | 1,266 | 1,630 | 1,701 | 1,733 | 1,887 | 1,867 |
| Taiwan | 351 | 397 | 400 | 427 | 476 | 597 | 637 | 592 | 670 | 616 |
| China, People's Republic of | 56 | 86 | 132 | 159 | 328 | 477 | 508 | 543 | 656 | 771 |
| Hong Kong | 27 | 22 | 33 | 38 | 30 | 30 | 37 | 32 | 14 | 20 |
| Japan | 28 | 15 | 24 | 19 | 17 | 29 | 25 | 23 | 46 | 30 |
| Korea | 175 | 238 | 257 | 308 | 360 | 435 | 437 | 484 | 429 | 344 |
| Thailand | 26 | 20 | 24 | 16 | 21 | 20 | 21 | 18 | 34 | 38 |
| East Asia, other | 19 | 25 | 19 | 21 | 34 | 42 | 36 | 41 | 38 | 48 |
| West Asia, total | 470 | 477 | 532 | 577 | 740 | 768 | 863 | 889 | 908 | 960 |
| India | 204 | 204 | 255 | 251 | 314 | 357 | 405 | 448 | 480 | 572 |
| Iran | 100 | 88 | 81 | 110 | 139 | 123 | 110 | 95 | 92 | 85 |
| Iraq | 4 | 10 | 8 | 9 | 14 | 11 | 14 | 6 | 9 | 8 |
| Israel | 26 | 20 | 25 | 19 | 22 | 27 | 26 | 23 | 17 | 19 |
| Lebanon | 11 | 27 | 18 | 25 | 35 | 38 | 37 | 27 | 45 | 31 |
| Saudi Arabia | 14 | 16 | 14 | 26 | 22 | 26 | 31 | 19 | 28 | 25 |
| Turkey | 49 | 43 | 42 | 52 | 59 | 64 | 81 | 74 | 64 | 72 |
| West Asia, other | 62 | 69 | 89 | 85 | 135 | 122 | 159 | 197 | 173 | 148 |
| Pacific/Australasia, total | 21 | 24 | 24 | 26 | 25 | 45 | 48 | 43 | 50 | 44 |
| Australia | 6 | 5 | 2 | 2 | 3 | 7 | 11 | 6 | 11 | 7 |
| Indonesia | 9 | 13 | 11 | 12 | 14 | 19 | 24 | 29 | 28 | 29 |
| New Zealand | 1 | 2 | 4 | 3 | 2 | 2 | 1 | 0 | 1 | 3 |
| Philippines | 5 | 4 | 7 | 9 | 6 | 17 | 11 | 7 | 9 | 5 |
| Pacific/Australasia, other | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |
| Africa, total | 118 | 107 | 138 | 140 | 187 | 155 | 138 | 121 | 168 | 122 |
| Egypt | 53 | 40 | 47 | 49 | 82 | 57 | 46 | 48 | 63 | 48 |
| Nigeria | 15 | 16 | 21 | 11 | 23 | 20 | 11 | 12 | 6 | 14 |
| Africa, other | 50 | 51 | 70 | 80 | 82 | 78 | 81 | 61 | 99 | 60 |
| Country unknown | 164 | 183 | 201 | 227 | 75 | 54 | 42 | 44 | 20 | 17 |

See explanatory information, if any, and SOURCE at end of table.

## Table 5. Non-U.S. citizens awarded science and engineering (S&E) doctorates, by country of citizenship, visa type, and year of doctorate: 1986-95



| Country of citizenship | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Total non-U.S. citizens: sciences | | | | | | | | | |
| Total foreign citizenship | 3,439 | 3,670 | 3,979 | 4,210 | 5,102 | 5,905 | 6,320 | 6,501 | 7,052 | 7,016 |
| North America, total | 280 | 256 | 292 | 327 | 362 | 441 | 442 | 424 | 457 | 423 |
| Canada | 160 | 152 | 175 | 182 | 212 | 243 | 258 | 243 | 239 | 233 |
| Caribbean | 23 | 17 | 26 | 24 | 29 | 51 | 39 | 34 | 47 | 52 |
| Central America | 20 | 22 | 26 | 29 | 42 | 41 | 46 | 35 | 59 | 35 |
| Mexico | 77 | 65 | 65 | 92 | 79 | 106 | 99 | 112 | 112 | 103 |
| South America, total | 238 | 232 | 225 | 224 | 259 | 301 | 307 | 297 | 297 | 270 |
| Argentina | 30 | 19 | 32 | 37 | 53 | 50 | 72 | 43 | 49 | 42 |
| Brazil | 80 | 74 | 69 | 70 | 69 | 85 | 102 | 105 | 108 | 91 |
| Chile | 36 | 35 | 36 | 38 | 39 | 46 | 38 | 47 | 34 | 30 |
| Colombia | 20 | 20 | 37 | 22 | 32 | 38 | 28 | 27 | 36 | 35 |
| South America, other | 72 | 84 | 51 | 57 | 66 | 82 | 67 | 75 | 70 | 72 |
| Europe, total | 415 | 473 | 520 | 511 | 596 | 772 | 748 | 860 | 893 | 956 |
| Belgium | 16 | 10 | 15 | 10 | 19 | 34 | 32 | 17 | 14 | 20 |
| England, United Kingdom | 66 | 87 | 105 | 82 | 86 | 118 | 120 | 136 | 114 | 112 |
| France | 21 | 32 | 31 | 33 | 38 | 48 | 52 | 61 | 64 | 59 |
| Germany | 52 | 67 | 67 | 85 | 108 | 110 | 106 | 141 | 167 | 171 |
| Europe, other | 260 | 277 | 302 | 301 | 345 | 462 | 438 | 505 | 534 | 594 |
| East Asia, total | 988 | 1,167 | 1,353 | 1,575 | 2,338 | 2,857 | 3,163 | 3,277 | 3,597 | 3,616 |
| Taiwan | 358 | 393 | 386 | 430 | 536 | 530 | 605 | 621 | 631 | 623 |
| China, People's Republic of | 142 | 207 | 348 | 461 | 822 | 1,316 | 1,537 | 1,684 | 1,875 | 1,980 |
| Hong Kong | 46 | 65 | 48 | 55 | 64 | 91 | 72 | 77 | 81 | 70 |
| Japan | 83 | 68 | 80 | 87 | 130 | 96 | 107 | 109 | 136 | 124 |
| Korea | 227 | 311 | 364 | 445 | 619 | 679 | 689 | 639 | 721 | 660 |
| Thailand | 83 | 75 | 74 | 60 | 90 | 73 | 66 | 59 | 63 | 75 |
| East Asia, other | 49 | 48 | 53 | 37 | 77 | 72 | 87 | 88 | 90 | 84 |
| West Asia, total | 738 | 754 | 701 | 731 | 914 | 902 | 1,028 | 1,014 | 1,169 | 1,217 |
| India | 265 | 299 | 265 | 285 | 397 | 395 | 456 | 485 | 585 | 632 |
| Iran | 114 | 94 | 92 | 88 | 119 | 104 | 90 | 108 | 82 | 88 |
| Iraq | 23 | 34 | 28 | 15 | 13 | 13 | 20 | 11 | 13 | 6 |
| Israel | 56 | 47 | 41 | 50 | 57 | 62 | 61 | 66 | 92 | 66 |
| Lebanon | 18 | 16 | 21 | 26 | 10 | 17 | 25 | 23 | 28 | 25 |
| Saudi Arabia | 35 | 34 | 38 | 35 | 41 | 41 | 45 | 27 | 48 | 46 |
| Turkey | 35 | 43 | 39 | 26 | 47 | 36 | 51 | 62 | 80 | 94 |
| West Asia, other | 192 | 187 | 177 | 206 | 230 | 234 | 280 | 232 | 241 | 260 |
| Pacific/Australasia, total | 130 | 113 | 132 | 140 | 150 | 171 | 172 | 184 | 181 | 186 |
| Australia | 28 | 37 | 37 | 39 | 43 | 28 | 29 | 41 | 45 | 53 |
| Indonesia | 32 | 30 | 32 | 40 | 39 | 50 | 54 | 49 | 55 | 54 |
| New Zealand | 16 | 12 | 13 | 24 | 14 | 21 | 15 | 24 | 14 | 23 |
| Philippines | 54 | 32 | 49 | 36 | 53 | 72 | 72 | 67 | 66 | 54 |
| Pacific/Australasia, other | 0 | 2 | 1 | 1 | 1 | 0 | 2 | 3 | 1 | 2 |
| Africa, total | 333 | 301 | 312 | 306 | 352 | 345 | 372 | 353 | 415 | 302 |
| Egypt | 48 | 58 | 68 | 60 | 78 | 55 | 55 | 40 | 41 | 31 |
| Nigeria | 66 | 73 | 66 | 48 | 60 | 63 | 57 | 43 | 54 | 39 |
| Africa, other | 219 | 170 | 178 | 198 | 214 | 227 | 260 | 270 | 320 | 232 |
| Country unknown | 317 | 374 | 444 | 396 | 131 | 116 | 88 | 92 | 43 | 46 |

See explanatory information, if any, and SOURCE at end of table

## Table 5. Non-U.S. citizens awarded science and engineering (S&E) doctorates, by country of citizenship, visa type, and year of doctorate: 1986-95



| Country of citizenship | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Permanent visas, S&E | | | | | | | | | |
| Total foreign citizenship | 994 | 1,089 | 1,130 | 1,124 | 1,197 | 1,285 | 1,382 | 1,641 | 3,022 | 3,501 |
| North America, total | 81 | 62 | 87 | 88 | 99 | 126 | 118 | 120 | 119 | 133 |
| Canada | 49 | 40 | 53 | 55 | 55 | 75 | 76 | 71 | 58 | 77 |
| Caribbean | 14 | 6 | 15 | 8 | 16 | 19 | 16 | 15 | 28 | 25 |
| Central America | 7 | 6 | 4 | 9 | 11 | 11 | 8 | 6 | 14 | 8 |
| Mexico | 11 | 10 | 15 | 16 | 17 | 21 | 18 | 28 | 19 | 23 |
| South America, total | 48 | 44 | 48 | 41 | 67 | 62 | 74 | 63 | 64 | 50 |
| Argentina | 6 | 4 | 8 | 4 | 11 | 16 | 17 | 17 | 13 | 9 |
| Brazil | 5 | 9 | 5 | 9 | 13 | 8 | 21 | 11 | 16 | 11 |
| Chile | 11 | 7 | 5 | 6 | 7 | 6 | 6 | 7 | 4 | 9 |
| Colombia | 4 | 5 | 14 | 7 | 11 | 11 | 9 | 5 | 13 | 8 |
| South America, other | 22 | 19 | 16 | 15 | 25 | 21 | 21 | 23 | 18 | 13 |
| Europe, total | 144 | 151 | 171 | 159 | 179 | 211 | 210 | 258 | 275 | 283 |
| Belgium | 6 | 2 | 4 | 3 | 6 | 8 | 8 | 8 | 4 | 7 |
| England, United Kingdom | 32 | 31 | 46 | 36 | 38 | 52 | 58 | 47 | 56 | 49 |
| France | 6 | 11 | 11 | 14 | 15 | 12 | 10 | 19 | 16 | 15 |
| Germany | 22 | 29 | 22 | 24 | 38 | 25 | 39 | 45 | 62 | 53 |
| Europe, other | 78 | 78 | 88 | 82 | 82 | 114 | 95 | 139 | 137 | 159 |
| East Asia, total | 244 | 260 | 250 | 264 | 323 | 407 | 485 | 663 | 2,001 | 2,484 |
| Taiwan | 144 | 150 | 136 | 142 | 147 | 160 | 172 | 155 | 178 | 165 |
| China, People's Republic of | 7 | 22 | 26 | 36 | 54 | 100 | 162 | 352 | 1,642 | 2,167 |
| Hong Kong | 14 | 19 | 15 | 15 | 12 | 16 | 28 | 20 | 20 | 15 |
| Japan | 11 | 10 | 10 | 13 | 23 | 20 | 18 | 20 | 30 | 19 |
| Korea | 46 | 36 | 49 | 52 | 70 | 91 | 82 | 91 | 99 | 86 |
| Thailand | 11 | 13 | 5 | 4 | 2 | 8 | 9 | 11 | 11 | 10 |
| East Asia, other | 11 | 10 | 9 | 2 | 15 | 12 | 14 | 14 | 21 | 22 |
| West Asia, total | 227 | 262 | 244 | 279 | 346 | 287 | 340 | 359 | 375 | 380 |
| India | 70 | 87 | 84 | 94 | 119 | 108 | 148 | 142 | 173 | 166 |
| Iran | 77 | 79 | 77 | 93 | 125 | 83 | 82 | 100 | 65 | 84 |
| Iraq | 2 | 8 | 8 | 2 | 3 | 3 | 8 | 4 | 7 | 5 |
| Israel | 16 | 20 | 16 | 20 | 11 | 18 | 15 | 22 | 41 | 20 |
| Lebanon | 8 | 15 | 10 | 14 | 18 | 10 | 6 | 11 | 12 | 11 |
| Saudi Arabia | 4 | 3 | 4 | 6 | 6 | 2 | 7 | 4 | 7 | 4 |
| Turkey | 21 | 12 | 15 | 11 | 17 | 11 | 20 | 18 | 15 | 20 |
| West Asia, other | 29 | 38 | 30 | 39 | 47 | 52 | 54 | 58 | 55 | 70 |
| Pacific/Australasia, total | 21 | 27 | 29 | 19 | 25 | 34 | 23 | 35 | 40 | 43 |
| Australia | 12 | 13 | 11 | 8 | 12 | 9 | 9 | 10 | 13 | 10 |
| Indonesia | 1 | 5 | 5 | 5 | 3 | 9 | 5 | 6 | 13 | 16 |
| New Zealand | 1 | 4 | 6 | 1 | 4 | 5 | 1 | 4 | 5 | 3 |
| Philippines | 7 | 4 | 7 | 5 | 6 | 11 | 7 | 14 | 8 | 13 |
| Pacific/Australasia, other | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| Africa, total | 63 | 69 | 81 | 80 | 92 | 103 | 95 | 100 | 123 | 93 |
| Egypt | 13 | 9 | 18 | 13 | 14 | 13 | 9 | 9 | 12 | 13 |
| Nigeria | 20 | 26 | 25 | 20 | 30 | 35 | 34 | 30 | 33 | 32 |
| Africa, other | 30 | 34 | 38 | 47 | 48 | 55 | 52 | 61 | 78 | 48 |
| Country unknown | 166 | 214 | 220 | 194 | 66 | 55 | 37 | 43 | 25 | 35 |

See explanatory information, if any, and SOURCE at end of table

## Table 5. Non-U.S. citizens awarded science and engineering (S&E) doctorates, by country of citizenship, visa type, and year of doctorate: 1986-95



| Country of citizenship | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Permanent visas, engineering | | | | | | | | | |
| Total foreign citizenship | 343 | 355 | 366 | 365 | 389 | 388 | 411 | 469 | 838 | 954 |
| North America, total | 6 | 8 | 16 | 12 | 20 | 17 | 13 | 16 | 14 | 23 |
| Canada | 2 | 3 | 8 | 9 | 9 | 14 | 8 | 9 | 6 | 9 |
| Caribbean | 1 | 1 | 1 | 0 | 4 | 0 | 2 | 2 | 4 | 3 |
| Central America | 2 | 1 | 2 | 0 | 3 | 2 | 2 | 1 | 2 | 4 |
| Mexico | 1 | 3 | 5 | 3 | 4 | 1 | 1 | 4 | 2 | 7 |
| South America, total | 8 | 11 | 12 | 7 | 12 | 12 | 14 | 8 | 13 | 7 |
| Argentina | 0 | 1 | 0 | 0 | 2 | 5 | 4 | 2 | 1 | 1 |
| Brazil | 2 | 5 | 0 | 1 | 2 | 2 | 2 | 1 | 2 | 2 |
| Chile | 1 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |
| Colombia | 0 | 0 | 5 | 2 | 1 | 1 | 2 | 1 | 4 | 1 |
| South America, other | 5 | 3 | 6 | 3 | 7 | 4 | 5 | 4 | 5 | 2 |
| Europe, total | 39 | 32 | 28 | 30 | 31 | 33 | 33 | 42 | 49 | 68 |
| Belgium | 2 | 0 | 2 | 0 | 1 | 1 | 2 | 2 | 1 | 1 |
| England, United Kingdom | 3 | 4 | 5 | 5 | 5 | 3 | 8 | 4 | 7 | 9 |
| France | 2 | 3 | 2 | 2 | 6 | 4 | 3 | 4 | 5 | 3 |
| Germany | 5 | 2 | 1 | 3 | 4 | 0 | 5 | 3 | 11 | 8 |
| Europe, other | 27 | 23 | 18 | 20 | 15 | 25 | 15 | 29 | 25 | 47 |
| East Asia, total | 116 | 115 | 112 | 105 | 128 | 166 | 163 | 221 | 576 | 694 |
| Taiwan | 78 | 76 | 71 | 67 | 69 | 88 | 80 | 73 | 89 | 76 |
| China, People's Republic of | 2 | 9 | 10 | 9 | 19 | 25 | 39 | 88 | 426 | 564 |
| Hong Kong | 6 | 9 | 5 | 5 | 5 | 7 | 10 | 10 | 7 | 5 |
| Japan | 4 | 2 | 2 | 1 | 1 | 5 | 3 | 2 | 5 | 2 |
| Korea | 19 | 14 | 22 | 22 | 30 | 36 | 25 | 43 | 42 | 34 |
| Thailand | 3 | 1 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 4 |
| East Asia, other | 4 | 4 | 2 | 1 | 4 | 4 | 4 | 4 | 6 | 9 |
| West Asia, total | 93 | 98 | 105 | 122 | 150 | 118 | 144 | 151 | 140 | 119 |
| India | 29 | 29 | 36 | 35 | 42 | 44 | 57 | 56 | 61 | 55 |
| Iran | 33 | 40 | 39 | 55 | 61 | 42 | 44 | 43 | 28 | 29 |
| Iraq | 0 | 1 | 3 | 1 | 1 | 0 | 2 | 2 | 5 | 3 |
| Israel | 6 | 4 | 6 | 2 | 3 | 4 | 5 | 6 | 6 | 0 |
| Lebanon | 3 | 10 | 7 | 7 | 13 | 4 | 4 | 6 | 5 | 3 |
| Saudi Arabia | 2 | 0 | 0 | 1 | 2 | 0 | 1 | 2 | 3 | 3 |
| Turkey | 11 | 7 | 8 | 5 | 10 | 5 | 10 | 6 | 6 | 7 |
| West Asia, other | 9 | 7 | 6 | 16 | 18 | 19 | 21 | 30 | 26 | 19 |
| Pacific/Australasia, total | 3 | 6 | 6 | 3 | 5 | 5 | 7 | 6 | 12 | 9 |
| Australia | 2 | 3 | 1 | 0 | 0 | 2 | 4 | 1 | 4 | 0 |
| Indonesia | 0 | 2 | 3 | 2 | 3 | 3 | 2 | 4 | 7 | 7 |
| New Zealand | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| Philippines | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 2 |
| Pacific/Australasia, other | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Africa, total | 19 | 12 | 17 | 17 | 21 | 25 | 23 | 14 | 28 | 28 |
| Egypt | 7 | 2 | 4 | 4 | 7 | 4 | 3 | 3 | 4 | 9 |
| Nigeria | 5 | 5 | 7 | 3 | 5 | 9 | 6 | 3 | 2 | 10 |
| Africa, other | 7 | 5 | 6 | 10 | 9 | 12 | 14 | 8 | 22 | 9 |
| Country unknown | 59 | 73 | 70 | 69 | 22 | 12 | 14 | 11 | 6 | 6 |

See explanatory information, if any, and SOURCE at end of table

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## Table 5. Non-U.S. citizens awarded science and engineering (S&E) doctorates, by country of citizenship, visa type, and year of doctorate: 1986-95



| Country of citizenship | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Permanent visas, sciences | | | | | | | | | |
| Total foreign citizenship | 651 | 734 | 764 | 759 | 808 | 897 | 971 | 1,172 | 2,184 | 2,547 |
| North America, total | 75 | 54 | 71 | 76 | 79 | 109 | 105 | 104 | 105 | 110 |
| Canada | 47 | 37 | 45 | 46 | 46 | 61 | 68 | 62 | 52 | 68 |
| Caribbean | 13 | 5 | 14 | 8 | 12 | 19 | 14 | 13 | 24 | 22 |
| Central America | 5 | 5 | 2 | 9 | 8 | 9 | 6 | 5 | 12 | 4 |
| Mexico | 10 | 7 | 10 | 13 | 13 | 20 | 17 | 24 | 17 | 16 |
| South America, total | 40 | 33 | 36 | 34 | 55 | 50 | 60 | 55 | 51 | 43 |
| Argentina | 6 | 3 | 8 | 4 | 9 | 11 | 13 | 15 | 12 | 8 |
| Brazil | 3 | 4 | 5 | 8 | 11 | 6 | 19 | 10 | 14 | 9 |
| Chile | 10 | 5 | 4 | 5 | 7 | 6 | 5 | 7 | 3 | 8 |
| Colombia | 4 | 5 | 9 | 5 | 10 | 10 | 7 | 4 | 9 | 7 |
| South America, other | 17 | 16 | 10 | 12 | 18 | 17 | 16 | 19 | 13 | 11 |
| Europe, total | 105 | 119 | 143 | 129 | 148 | 178 | 177 | 216 | 226 | 215 |
| Belgium | 4 | 2 | 2 | 3 | 5 | 7 | 6 | 6 | 3 | 6 |
| England, United Kingdom | 29 | 27 | 41 | 31 | 33 | 49 | 50 | 43 | 49 | 40 |
| France | 4 | 8 | 9 | 12 | 9 | 8 | 7 | 15 | 11 | 12 |
| Germany | 17 | 27 | 21 | 21 | 34 | 25 | 34 | 42 | 51 | 45 |
| Europe, other | 51 | 55 | 70 | 62 | 67 | 89 | 80 | 110 | 112 | 112 |
| East Asia, total | 128 | 145 | 138 | 159 | 195 | 241 | 322 | 442 | 1,425 | 1,790 |
| Taiwan | 66 | 74 | 65 | 75 | 78 | 72 | 92 | 82 | 89 | 89 |
| China, People's Republic of | 5 | 13 | 16 | 27 | 35 | 75 | 123 | 264 | 1,216 | 1,603 |
| Hong Kong | 8 | 10 | 10 | 10 | 7 | 9 | 18 | 10 | 13 | 10 |
| Japan | 7 | 8 | 8 | 12 | 22 | 15 | 15 | 18 | 25 | 17 |
| Korea | 27 | 22 | 27 | 30 | 40 | 55 | 57 | 48 | 57 | 52 |
| Thailand | 8 | 12 | 5 | 4 | 2 | 7 | 7 | 10 | 10 | 6 |
| East Asia, other | 7 | 6 | 7 | 1 | 11 | 8 | 10 | 10 | 15 | 13 |
| West Asia, total | 134 | 164 | 139 | 157 | 196 | 169 | 196 | 208 | 235 | 261 |
| India | 41 | 58 | 48 | 59 | 77 | 64 | 91 | 86 | 112 | 111 |
| Iran | 44 | 39 | 38 | 38 | 64 | 41 | 38 | 57 | 37 | 55 |
| Iraq | 2 | 7 | 5 | 1 | 2 | 3 | 6 | 2 | 2 | 2 |
| Israel | 10 | 16 | 10 | 13 | 8 | 14 | 10 | 16 | 35 | 20 |
| Lebanon | 5 | 5 | 3 | 7 | 5 | 6 | 2 | 5 | 7 | 8 |
| Saudi Arabia | 2 | 3 | 4 | 5 | 4 | 2 | 6 | 2 | 4 | 1 |
| Turkey | 10 | 5 | 7 | 6 | 7 | 6 | 10 | 12 | 9 | 13 |
| West Asia, other | 20 | 31 | 24 | 23 | 29 | 33 | 33 | 28 | 29 | 51 |
| Pacific/Australasia, total | 18 | 21 | 23 | 16 | 20 | 29 | 16 | 29 | 28 | 34 |
| Australia | 10 | 10 | 10 | 8 | 12 | 7 | 5 | 9 | 9 | 10 |
| Indonesia | 1 | 3 | 2 | 3 | 0 | 6 | 3 | 2 | 6 | 9 |
| New Zealand | 1 | 3 | 4 | 1 | 3 | 5 | 1 | 4 | 4 | 3 |
| Philippines | 6 | 4 | 7 | 4 | 5 | 11 | 7 | 13 | 8 | 11 |
| Pacific/Australasia, other | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| Africa, total | 44 | 57 | 64 | 63 | 71 | 78 | 72 | 86 | 95 | 65 |
| Egypt | 6 | 7 | 14 | 9 | 7 | 9 | 6 | 6 | 8 | 4 |
| Nigeria | 15 | 21 | 18 | 17 | 25 | 26 | 28 | 27 | 31 | 22 |
| Africa, other | 23 | 29 | 32 | 37 | 39 | 43 | 38 | 53 | 56 | 39 |
| Country unknown | 107 | 141 | 150 | 125 | 44 | 43 | 23 | 32 | 19 | 29 |

See explanatory information, if any, and SOURCE at end of table.

## Table 5. Non-U.S. citizens awarded science and engineering (S&E) doctorates, by country of citizenship, visa type, and year of doctorate: 1986-95



| Country of citizenship | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Temporary visas, S&E | | | | | | | | | |
| Total foreign citizenship | 4,160 | 4,468 | 4,936 | 5,391 | 6,571 | 7,642 | 8,092 | 8,113 | 7,521 | 6,992 |
| North America, total | 248 | 256 | 268 | 315 | 347 | 399 | 397 | 386 | 428 | 372 |
| Canada | 129 | 141 | 150 | 165 | 198 | 222 | 228 | 214 | 217 | 197 |
| Caribbean | 15 | 17 | 13 | 21 | 20 | 35 | 28 | 23 | 33 | 34 |
| Central America | 18 | 22 | 28 | 25 | 42 | 35 | 44 | 38 | 55 | 35 |
| Mexico | 86 | 76 | 77 | 104 | 87 | 107 | 97 | 111 | 123 | 106 |
| South America, total | 253 | 267 | 246 | 256 | 276 | 325 | 320 | 331 | 344 | 308 |
| Argentina | 34 | 24 | 30 | 39 | 54 | 46 | 69 | 36 | 43 | 40 |
| Brazil | 92 | 103 | 89 | 91 | 87 | 111 | 112 | 140 | 141 | 126 |
| Chile | 33 | 38 | 40 | 41 | 43 | 48 | 42 | 45 | 38 | 29 |
| Colombia | 20 | 22 | 32 | 20 | 29 | 38 | 28 | 30 | 35 | 37 |
| South America, other | 74 | 80 | 55 | 65 | 63 | 82 | 69 | 80 | 87 | 76 |
| Europe, total | 419 | 474 | 520 | 550 | 622 | 761 | 740 | 846 | 875 | 970 |
| Belgium | 14 | 14 | 17 | 12 | 25 | 35 | 34 | 16 | 17 | 25 |
| England, United Kingdom | 46 | 65 | 70 | 60 | 52 | 80 | 79 | 107 | 72 | 83 |
| France | 28 | 37 | 42 | 37 | 50 | 55 | 67 | 74 | 80 | 68 |
| Germany | 40 | 45 | 56 | 78 | 85 | 93 | 85 | 119 | 134 | 155 |
| Europe, other | 291 | 313 | 335 | 363 | 400 | 498 | 475 | 530 | 572 | 639 |
| East Asia, total | 1,426 | 1,710 | 1,992 | 2,299 | 3,281 | 4,080 | 4,379 | 4,347 | 3,483 | 2,999 |
| Taiwan | 565 | 640 | 650 | 715 | 865 | 967 | 1,070 | 1,058 | 1,123 | 1,074 |
| China, People's Republic of | 191 | 271 | 454 | 584 | 1,096 | 1,693 | 1,883 | 1,875 | 889 | 584 |
| Hong Kong | 59 | 68 | 66 | 78 | 82 | 105 | 81 | 89 | 75 | 75 |
| Japan | 100 | 73 | 94 | 93 | 124 | 105 | 114 | 112 | 152 | 135 |
| Korea | 356 | 513 | 572 | 701 | 909 | 1,023 | 1,044 | 1,032 | 1,051 | 918 |
| Thailand | 98 | 82 | 93 | 72 | 109 | 85 | 78 | 66 | 86 | 103 |
| East Asia, other | 57 | 63 | 63 | 56 | 96 | 102 | 109 | 115 | 107 | 110 |
| West Asia, total | 981 | 969 | 989 | 1,029 | 1,308 | 1,383 | 1,551 | 1,544 | 1,702 | 1,797 |
| India | 399 | 416 | 436 | 442 | 592 | 644 | 713 | 791 | 892 | 1,038 |
| Iran | 137 | 103 | 96 | 105 | 133 | 144 | 118 | 103 | 109 | 89 |
| Iraq | 25 | 36 | 28 | 22 | 24 | 21 | 26 | 13 | 15 | 9 |
| Israel | 66 | 47 | 50 | 49 | 68 | 71 | 72 | 67 | 68 | 65 |
| Lebanon | 21 | 28 | 29 | 37 | 27 | 45 | 56 | 39 | 61 | 45 |
| Saudi Arabia | 45 | 47 | 48 | 55 | 57 | 65 | 69 | 42 | 69 | 67 |
| Turkey | 63 | 74 | 66 | 67 | 89 | 89 | 112 | 118 | 129 | 146 |
| West Asia, other | 225 | 218 | 236 | 252 | 318 | 304 | 385 | 371 | 359 | 338 |
| Pacific Australasia, total | 130 | 110 | 127 | 147 | 150 | 182 | 197 | 192 | 191 | 187 |
| Australia | 22 | 29 | 28 | 33 | 34 | 26 | 31 | 37 | 43 | 50 |
| Indonesia | 40 | 38 | 38 | 47 | 50 | 60 | 73 | 72 | 70 | 67 |
| New Zealand | 16 | 10 | 11 | 26 | 12 | 18 | 15 | 20 | 10 | 23 |
| Philippines | 52 | 32 | 49 | 40 | 53 | 78 | 76 | 60 | 67 | 46 |
| Pacific Australasia, other | 0 | 1 | 1 | 1 | 1 | 0 | 2 | 3 | 1 | 1 |
| Africa, total | 388 | 339 | 369 | 366 | 447 | 397 | 415 | 374 | 460 | 331 |
| Egypt | 88 | 89 | 97 | 96 | 146 | 99 | 92 | 79 | 92 | 66 |
| Nigeria | 61 | 63 | 62 | 39 | 53 | 48 | 34 | 25 | 27 | 21 |
| Africa, other | 239 | 187 | 210 | 231 | 248 | 250 | 289 | 270 | 341 | 244 |
| Country unknown | 315 | 343 | 425 | 429 | 140 | 115 | 93 | 93 | 38 | 28 |

See explanatory information, if any, and SOURCE at end of table.

## Table 5. Non-U.S. citizens awarded science and engineering (S&E) doctorates, by country of citizenship, visa type, and year of doctorate: 1986-95



| Country of citizenship | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Temporary visas, engineering | | | | | | | | | |
| Total foreign citizenship | 1,372 | 1,532 | 1,721 | 1,940 | 2,277 | 2,634 | 2,743 | 2,784 | 2,653 | 2,523 |
| North America, total | 43 | 54 | 47 | 64 | 64 | 67 | 60 | 66 | 76 | 59 |
| Canada | 16 | 26 | 20 | 29 | 32 | 40 | 38 | 33 | 30 | 32 |
| Caribbean | 5 | 5 | 1 | 5 | 3 | 3 | 3 | 2 | 10 | 4 |
| Central America | 3 | 5 | 4 | 5 | 8 | 3 | 4 | 8 | 8 | 4 |
| Mexico | 19 | 18 | 22 | 25 | 21 | 21 | 15 | 23 | 28 | 19 |
| South America, total | 55 | 68 | 57 | 66 | 72 | 74 | 73 | 89 | 98 | 81 |
| Argentina | 10 | 8 | 6 | 6 | 10 | 7 | 10 | 8 | 6 | 6 |
| Brazil | 15 | 33 | 25 | 29 | 29 | 32 | 29 | 45 | 47 | 44 |
| Chile | 7 | 8 | 8 | 8 | 11 | 8 | 9 | 5 | 7 | 7 |
| Colombia | 4 | 7 | 4 | 3 | 7 | 10 | 7 | 7 | 8 | 9 |
| South America, other | 19 | 12 | 14 | 20 | 15 | 17 | 18 | 24 | 30 | 15 |
| Europe, total | 109 | 120 | 143 | 168 | 174 | 167 | 169 | 202 | 208 | 229 |
| Belgium | 2 | 6 | 4 | 5 | 11 | 8 | 8 | 5 | 6 | 11 |
| England, United Kingdom | 9 | 5 | 6 | 9 | 9 | 11 | 9 | 14 | 7 | 11 |
| France | 11 | 13 | 20 | 16 | 21 | 15 | 22 | 28 | 27 | 21 |
| Germany | 5 | 5 | 10 | 14 | 11 | 8 | 13 | 20 | 18 | 29 |
| Europe, other | 82 | 91 | 103 | 124 | 122 | 125 | 117 | 135 | 150 | 157 |
| East Asia, total | 566 | 688 | 777 | 883 | 1,138 | 1,464 | 1,538 | 1,512 | 1,311 | 1,173 |
| Taiwan | 273 | 321 | 329 | 360 | 407 | 509 | 557 | 519 | 581 | 540 |
| China, People's Republic of | 54 | 77 | 122 | 150 | 309 | 452 | 469 | 455 | 230 | 207 |
| Hong Kong | 21 | 13 | 28 | 33 | 25 | 23 | 27 | 22 | 7 | 15 |
| Japan | 24 | 13 | 22 | 18 | 16 | 24 | 22 | 21 | 41 | 28 |
| Korea | 156 | 224 | 235 | 286 | 330 | 399 | 412 | 441 | 387 | 310 |
| Thailand | 23 | 19 | 24 | 16 | 21 | 19 | 19 | 17 | 33 | 34 |
| East Asia, other | 15 | 21 | 17 | 20 | 30 | 38 | 32 | 37 | 32 | 39 |
| West Asia, total | 377 | 379 | 427 | 455 | 590 | 650 | 719 | 738 | 768 | 841 |
| India | 175 | 175 | 219 | 216 | 272 | 313 | 348 | 392 | 419 | 517 |
| Iran | 67 | 48 | 42 | 55 | 78 | 81 | 66 | 52 | 64 | 56 |
| Iraq | 4 | 9 | 5 | 8 | 13 | 11 | 12 | 4 | 4 | 5 |
| Israel | 20 | 16 | 19 | 17 | 19 | 23 | 21 | 17 | 11 | 19 |
| Lebanon | 8 | 17 | 11 | 18 | 22 | 34 | 33 | 21 | 40 | 28 |
| Saudi Arabia | 12 | 16 | 14 | 25 | 20 | 26 | 30 | 17 | 25 | 22 |
| Turkey | 38 | 36 | 34 | 47 | 49 | 59 | 71 | 68 | 58 | 65 |
| West Asia, other | 53 | 62 | 83 | 69 | 117 | 103 | 138 | 167 | 147 | 129 |
| Pacific Australasia, total | 18 | 18 | 18 | 23 | 20 | 40 | 41 | 37 | 38 | 35 |
| Australia | 4 | 2 | 1 | 2 | 3 | 5 | 7 | 5 | 7 | 7 |
| Indonesia | 9 | 11 | 8 | 10 | 11 | 16 | 22 | 25 | 21 | 22 |
| New Zealand | 1 | 1 | 2 | 3 | 1 | 2 | 1 | 0 | 0 | 3 |
| Philippines | 4 | 4 | 7 | 8 | 5 | 17 | 11 | 6 | 9 | 3 |
| Pacific Australasia, other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| Africa, total | 99 | 95 | 121 | 123 | 166 | 130 | 115 | 107 | 140 | 94 |
| Egypt | 46 | 38 | 43 | 45 | 75 | 53 | 43 | 45 | 59 | 39 |
| Nigeria | 10 | 11 | 14 | 8 | 18 | 11 | 5 | 9 | 4 | 4 |
| Africa, other | 43 | 46 | 64 | 70 | 73 | 66 | 67 | 53 | 77 | 51 |
| Country unknown | 105 | 110 | 131 | 158 | 53 | 42 | 28 | 33 | 14 | 11 |

See explanatory information, if any, and SOURCE at end of table

## Table 5. Non-U.S. citizens awarded science and engineering (S&E) doctorates, by country of citizenship, visa type, and year of doctorate: 1986-95



| Country of citizenship | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Temporary visas, sciences | | | | | | | | | |
| Total foreign citizenship | 2,788 | 2,936 | 3,215 | 3,451 | 4,294 | 5,008 | 5,349 | 5,329 | 4,868 | 4,469 |
| North America, total | 205 | 202 | 221 | 251 | 283 | 332 | 337 | 320 | 352 | 313 |
| Canada | 113 | 115 | 130 | 136 | 166 | 182 | 190 | 181 | 187 | 165 |
| Caribbean | 10 | 12 | 12 | 16 | 17 | 32 | 25 | 21 | 23 | 30 |
| Central America | 15 | 17 | 24 | 20 | 34 | 32 | 40 | 30 | 47 | 31 |
| Mexico | 67 | 58 | 55 | 79 | 66 | 86 | 82 | 88 | 95 | 87 |
| South America, total | 198 | 199 | 189 | 190 | 204 | 251 | 247 | 242 | 246 | 227 |
| Argentina | 24 | 16 | 24 | 33 | 44 | 39 | 59 | 28 | 37 | 34 |
| Brazil | 77 | 70 | 64 | 62 | 58 | 79 | 83 | 95 | 94 | 82 |
| Chile | 26 | 30 | 32 | 33 | 32 | 40 | 33 | 40 | 31 | 22 |
| Colombia | 16 | 15 | 28 | 17 | 22 | 28 | 21 | 23 | 27 | 28 |
| South America, other | 55 | 68 | 41 | 45 | 48 | 65 | 51 | 56 | 57 | 61 |
| Europe, total | 310 | 354 | 377 | 382 | 448 | 594 | 571 | 644 | 667 | 741 |
| Belgium | 12 | 8 | 13 | 7 | 14 | 27 | 26 | 11 | 11 | 14 |
| England, United Kingdom | 37 | 60 | 64 | 51 | 53 | 69 | 70 | 93 | 65 | 72 |
| France | 17 | 24 | 22 | 21 | 29 | 40 | 45 | 46 | 53 | 47 |
| Germany | 35 | 40 | 46 | 64 | 74 | 85 | 72 | 99 | 116 | 126 |
| Europe, other | 209 | 222 | 232 | 239 | 278 | 373 | 358 | 395 | 422 | 482 |
| East Asia, total | 860 | 1,022 | 1,215 | 1,416 | 2,143 | 2,616 | 2,841 | 2,835 | 2,172 | 1,826 |
| Taiwan | 292 | 319 | 321 | 355 | 458 | 458 | 513 | 539 | 542 | 534 |
| China, People's Republic of | 137 | 194 | 332 | 434 | 787 | 1,241 | 1,414 | 1,420 | 659 | 377 |
| Hong Kong | 38 | 55 | 38 | 45 | 57 | 82 | 54 | 67 | 68 | 60 |
| Japan | 76 | 60 | 72 | 75 | 108 | 81 | 92 | 91 | 111 | 107 |
| Korea | 200 | 289 | 337 | 415 | 579 | 624 | 632 | 591 | 664 | 608 |
| Thailand | 75 | 63 | 69 | 56 | 88 | 66 | 59 | 49 | 53 | 69 |
| East Asia, other | 42 | 42 | 46 | 36 | 66 | 64 | 77 | 78 | 75 | 71 |
| West Asia, total | 604 | 590 | 562 | 574 | 718 | 733 | 832 | 806 | 934 | 956 |
| India | 224 | 241 | 217 | 226 | 320 | 331 | 365 | 399 | 473 | 521 |
| Iran | 70 | 55 | 54 | 50 | 55 | 63 | 52 | 51 | 45 | 33 |
| Iraq | 21 | 27 | 23 | 14 | 11 | 10 | 14 | 9 | 11 | 4 |
| Israel | 46 | 31 | 31 | 32 | 49 | 48 | 51 | 50 | 57 | 46 |
| Lebanon | 13 | 11 | 18 | 19 | 5 | 11 | 23 | 18 | 21 | 17 |
| Saudi Arabia | 33 | 31 | 34 | 30 | 37 | 39 | 39 | 25 | 44 | 45 |
| Turkey | 25 | 38 | 32 | 20 | 40 | 30 | 41 | 50 | 71 | 81 |
| West Asia, other | 172 | 156 | 153 | 183 | 201 | 201 | 247 | 204 | 212 | 209 |
| Pacific/Australasia, total | 112 | 92 | 109 | 124 | 130 | 142 | 156 | 155 | 153 | 152 |
| Australia | 18 | 27 | 27 | 31 | 31 | 21 | 24 | 32 | 36 | 43 |
| Indonesia | 31 | 27 | 30 | 37 | 39 | 44 | 51 | 47 | 49 | 45 |
| New Zealand | 15 | 9 | 9 | 23 | 11 | 16 | 14 | 20 | 10 | 20 |
| Philippines | 48 | 28 | 42 | 32 | 48 | 61 | 65 | 54 | 58 | 43 |
| Pacific/Australasia, other | 0 | 1 | 1 | 1 | 1 | 0 | 2 | 2 | 0 | 1 |
| Africa, total | 289 | 244 | 248 | 243 | 281 | 267 | 300 | 267 | 320 | 237 |
| Egypt | 42 | 51 | 54 | 51 | 71 | 46 | 49 | 34 | 33 | 27 |
| Nigeria | 51 | 52 | 48 | 31 | 35 | 37 | 29 | 16 | 23 | 17 |
| Africa, other | 196 | 141 | 146 | 161 | 175 | 184 | 222 | 217 | 264 | 193 |
| Country unknown | 210 | 233 | 294 | 271 | 87 | 73 | 65 | 60 | 24 | 17 |

**SOURCE:** National Science Foundation/SRS, Survey of Earned Doctorates

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 1995

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]



| State and institution | S&E rank | Total S&E | Engineering | | | | | | Physical sciences | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Total | Chemical | Civil | Electrical | Mechanical | Other engineering | Total | Physics & astronomy | Chemistry | Other physical sciences |
| Total, all institutions | - | 26,515 | 6,007 | 708 | 656 | 1,731 | 1,024 | 1,888 | 3,840 | 1,652 | 2,161 | 27 |
| Alabama, total | 30 | 253 | 55 | 2 | 4 | 7 | 12 | 30 | 29 | 15 | 14 | 0 |
| Alabama A&M University | 150 | 6 | 1 | 0 | 0 | 0 | 0 | 1 | 3 | 3 | 0 | 0 |
| Auburn University | 71 | 101 | 22 | 1 | 3 | 2 | 4 | 12 | 9 | 5 | 4 | 0 |
| United States Sports Academy | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Alabama | 105 | 53 | 10 | 1 | 1 | 2 | 0 | 6 | 10 | 0 | 10 | 0 |
| University of Alabama Birmingham | 98 | 61 | 5 | 0 | 0 | 0 | 0 | 5 | 1 | 1 | 0 | 0 |
| University of Alabama Huntsville | 132 | 24 | 17 | 0 | 0 | 3 | 8 | 6 | 6 | 6 | 0 | 0 |
| University of South Alabama | 148 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alaska, total | 51 | 19 | 2 | 0 | 0 | 0 | 2 | 0 | 2 | 2 | 0 | 0 |
| University of Alaska Fairbanks | 137 | 19 | 2 | 0 | 0 | 0 | 2 | 0 | 2 | 2 | 0 | 0 |
| Arizona, total | 20 | 455 | 107 | 3 | 17 | 28 | 18 | 41 | 72 | 39 | 29 | 4 |
| Arizona State University Main | 43 | 168 | 51 | 0 | 7 | 13 | 8 | 23 | 17 | 9 | 8 | 0 |
| Northern Arizona University | 142 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Arizona | 24 | 273 | 56 | 3 | 10 | 15 | 10 | 18 | 55 | 30 | 21 | 4 |
| Arkansas, total | 42 | 69 | 14 | 3 | 1 | 4 | 0 | 6 | 14 | 6 | 8 | 0 |
| U of Arkansas Little Rock | 152 | 4 | 4 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 |
| U of Arkansas Med Sci | 142 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U of Arkansas | 107 | 51 | 10 | 3 | 1 | 4 | 0 | 2 | 14 | 6 | 8 | 0 |
| California, total | 1 | 3,653 | 791 | 66 | 76 | 303 | 134 | 212 | 503 | 235 | 261 | 7 |
| Biola University | 145 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CA Inst Integral Studies | 136 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CA Inst Technology | 44 | 166 | 47 | 11 | 1 | 14 | 14 | 7 | 72 | 35 | 34 | 3 |
| CA Sch Prof Psych Fresno | 113 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CA Sch Prof Psych Los Angeles | 92 | 71 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CA Sch Prof Psych San Diego | 86 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CA Sch Prof Psych Berkeley | 97 | 63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Claremont Graduate School | 124 | 33 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fielding Institute | 118 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fuller Theological Seminary CA | 117 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Golden Gate Baptist Seminary | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Graduate Theological Union | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hebrew Union Col CA Branch | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Loma Linda U La Sierra Campus | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Loma Linda University | 145 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Naval Postgraduate School | 149 | 7 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Pacific Grad School of Psych | 118 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pepperdine University | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rand Grad Sch of Policy Studies | 144 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Research Inst of Scripps Clinic | 150 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| San Diego State University | 140 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| Santa Clara University | 153 | 3 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Saybrook Institute | 140 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| School of Theology at Claremont | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Stanford University | 6 | 466 | 207 | 14 | 14 | 70 | 48 | 61 | 70 | 37 | 33 | 0 |
| United States International U | 100 | 59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of the Pacific | 154 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| U of California Berkeley | 1 | 608 | 178 | 15 | 29 | 57 | 32 | 45 | 76 | 34 | 42 | 0 |
| U of California Davis | 19 | 302 | 47 | 3 | 9 | 8 | 9 | 18 | 44 | 13 | 30 | 1 |
| U of California Irvine | 53 | 146 | 29 | 5 | 7 | 7 | 5 | 5 | 30 | 14 | 16 | 0 |
| U of California Los Angeles | 9 | 435 | 85 | 4 | 12 | 35 | 8 | 26 | 67 | 34 | 33 | 0 |
| U of California Riverside | 79 | 89 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 4 | 4 | 0 |
| U of California San Diego | 31 | 227 | 35 | 1 | 0 | 17 | 5 | 12 | 39 | 24 | 14 | 1 |
| U of California San Francisco | 92 | 71 | 6 | 0 | 0 | 0 | 0 | 6 | 12 | 0 | 12 | 0 |
| U of California Santa Barbara | 52 | 147 | 44 | 5 | 0 | 19 | 10 | 10 | 30 | 18 | 12 | 0 |
| U of California Santa Cruz | 84 | 83 | 7 | 0 | 0 | 7 | 0 | 0 | 22 | 10 | 10 | 2 |
| University of La Verne | 149 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of San Diego | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of San Francisco | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Southern CA | 18 | 308 | 100 | 8 | 4 | 64 | 2 | 22 | 28 | 12 | 16 | 0 |
| Wright Institute, All Campuses | 134 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 1995

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]



| State and institution | Earth, atmos. ocean | Mathematics | Computer sciences | Biological & agricultural sciences | | | Psychology | Social sciences | Non S&E total | Grand total all fields |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Biological | Agricultural | | | | |
| Total, all institutions | 778 | 1,190 | 998 | 6,406 | 5,370 | 1,036 | 3,419 | 3,877 | 15,095 | 41,610 |
| Alabama, total | 1 | 11 | 2 | 98 | 72 | 26 | 31 | 26 | 187 | 440 |
| Alabama A&M University | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 6 |
| Auburn University | 0 | 6 | 1 | 38 | 14 | 24 | 16 | 9 | 36 | 137 |
| United States Sports Academy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| University of Alabama | 0 | 4 | 0 | 4 | 4 | 0 | 8 | 17 | 109 | 162 |
| University of Alabama Birmingham | 1 | 0 | 1 | 46 | 46 | 0 | 7 | 0 | 40 | 101 |
| University of Alabama Huntsville | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| University of South Alabama | 0 | 0 | 0 | 8 | 8 | 0 | 0 | 0 | 0 | 8 |
| Alaska, total | 4 | 1 | 0 | 7 | 5 | 2 | 1 | 2 | 0 | 19 |
| University of Alaska Fairbanks | 4 | 1 | 0 | 7 | 5 | 2 | 1 | 2 | 0 | 19 |
| Arizona, total | 30 | 30 | 17 | 92 | 76 | 16 | 44 | 63 | 327 | 782 |
| Arizona State University Main | 9 | 5 | 10 | 24 | 24 | 0 | 26 | 26 | 134 | 302 |
| Northern Arizona University | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 10 | 72 | 86 |
| University of Arizona | 21 | 25 | 7 | 64 | 48 | 16 | 18 | 27 | 121 | 394 |
| Arkansas, total | 0 | 1 | 1 | 33 | 19 | 14 | 5 | 1 | 87 | 156 |
| U of Arkansas Little Rock | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 10 |
| U of Arkansas Med Sci | 0 | 0 | 0 | 14 | 14 | 0 | 0 | 0 | 0 | 14 |
| U of Arkansas | 0 | 1 | 1 | 19 | 5 | 14 | 5 | 1 | 81 | 132 |
| California, total | 102 | 175 | 128 | 704 | 668 | 36 | 699 | 551 | 1,362 | 5,015 |
| Biola University | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 5 | 16 |
| CA Inst Integral Studies | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 3 | 23 |
| CA Inst Technology | 8 | 11 | 7 | 14 | 14 | 0 | 0 | 7 | 0 | 166 |
| CA Sch Prof Psych Fresno | 0 | 0 | 0 | 0 | 0 | 0 | 45 | 0 | 0 | 45 |
| CA Sch Prof Psych Los Angeles | 0 | 0 | 0 | 0 | 0 | 0 | 71 | 0 | 0 | 71 |
| CA Sch Prof Psych San Diego | 0 | 0 | 0 | 0 | 0 | 0 | 80 | 0 | 0 | 80 |
| CA Sch Prof Psych Berkeley | 0 | 0 | 0 | 0 | 0 | 0 | 63 | 0 | 1 | 64 |
| Claremont Graduate School | 0 | 6 | 5 | 1 | 1 | 0 | 10 | 10 | 45 | 78 |
| Fielding Institute | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 0 | 5 | 45 |
| Fuller Theological Seminary CA | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 0 | 12 | 53 |
| Golden Gate Baptist Seminary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Graduate Theological Union | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 25 |
| Hebrew Union Col CA Branch | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Loma Linda U La Sierra Campus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| Loma Linda University | 0 | 0 | 0 | 11 | 11 | 0 | 0 | 0 | 7 | 18 |
| Naval Postgraduate School | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Pacific Grad School of Psych | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 40 |
| Pepperdine University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 22 |
| Rand Grad Sch of Policy Studies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 12 |
| Research Inst of Scripps Clinic | 0 | 0 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 6 |
| San Diego State University | 0 | 0 | 0 | 4 | 4 | 0 | 10 | 0 | 5 | 21 |
| Santa Clara University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Saybrook Institute | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 1 | 1 | 17 |
| School of Theology at Claremont | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| Stanford University | 13 | 33 | 21 | 47 | 46 | 1 | 12 | 63 | 117 | 583 |
| United States International U | 0 | 0 | 0 | 0 | 0 | 0 | 59 | 0 | 27 | 86 |
| University of the Pacific | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 15 |
| U of California Berkeley | 17 | 52 | 22 | 115 | 104 | 11 | 25 | 123 | 219 | 827 |
| U of California Davis | 9 | 8 | 3 | 150 | 134 | 16 | 8 | 33 | 35 | 337 |
| U of California Irvine | 0 | 4 | 11 | 44 | 44 | 0 | 5 | 23 | 42 | 188 |
| U of California Los Angeles | 19 | 24 | 18 | 87 | 87 | 0 | 40 | 95 | 228 | 663 |
| U of California Riverside | 0 | 3 | 0 | 35 | 27 | 8 | 12 | 31 | 43 | 132 |
| U of California San Diego | 14 | 12 | 15 | 70 | 70 | 0 | 12 | 30 | 30 | 257 |
| U of California San Francisco | 0 | 0 | 0 | 42 | 42 | 0 | 2 | 9 | 15 | 86 |
| U of California Santa Barbara | 7 | 5 | 6 | 17 | 17 | 0 | 14 | 24 | 54 | 201 |
| U of California Santa Cruz | 9 | 4 | 4 | 11 | 11 | 0 | 9 | 17 | 17 | 100 |
| University of La Verne | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 49 | 56 |
| University of San Diego | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 23 |
| University of San Francisco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 73 | 73 |
| University of Southern CA | 5 | 12 | 13 | 51 | 51 | 0 | 33 | 66 | 233 | 541 |
| Wright Institute, All Campuses | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 22 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 1995

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]



| State and institution | S&E rank | Total S&E | Engineering | | | | | | Physical sciences | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Total | Chemical | Civil | Electrical | Mechanical | Other engineering | Total | Physics & astronomy | Chemistry | Other physical sciences |
| Colorado, total | 16 | 530 | 144 | 14 | 31 | 37 | 10 | 52 | 59 | 22 | 36 | 1 |
| Colorado School of Mines | 115 | 43 | 20 | 2 | 0 | 0 | 0 | 18 | 4 | 3 | 1 | 0 |
| Colorado State University | 41 | 173 | 33 | 3 | 18 | 3 | 3 | 6 | 20 | 2 | 18 | 0 |
| University of Colorado Boulder | 25 | 267 | 90 | 9 | 13 | 34 | 7 | 27 | 30 | 17 | 12 | 1 |
| University of Denver | 119 | 39 | 1 | 0 | 0 | 0 | 0 | 1 | 5 | 0 | 5 | 0 |
| University of Northern Colorado | 148 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Connecticut, total | 23 | 407 | 44 | 7 | 2 | 9 | 19 | 7 | 77 | 27 | 50 | 0 |
| University of Connecticut | 45 | 164 | 25 | 3 | 2 | 5 | 9 | 6 | 22 | 3 | 19 | 0 |
| University of Hartford | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wesleyan University | 135 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 3 | 0 |
| Yale University | 32 | 222 | 19 | 4 | 0 | 4 | 10 | 1 | 51 | 23 | 28 | 0 |
| Delaware, total | 39 | 100 | 31 | 15 | 6 | 6 | 2 | 2 | 14 | 8 | 6 | 0 |
| University of Delaware | 72 | 100 | 31 | 15 | 6 | 6 | 2 | 2 | 14 | 8 | 6 | 0 |
| Wilmington College | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District of Columbia, total | 27 | 283 | 30 | 0 | 1 | 6 | 6 | 17 | 36 | 17 | 19 | 0 |
| American University | 104 | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 5 | 3 | 0 |
| Catholic University of America | 124 | 33 | 5 | 0 | 0 | 1 | 2 | 2 | 10 | 9 | 1 | 0 |
| Gallaudet University | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| George Washington University | 73 | 99 | 24 | 0 | 1 | 4 | 4 | 15 | 4 | 2 | 2 | 0 |
| Georgetown University | 110 | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 0 |
| Howard University | 109 | 49 | 1 | 0 | 0 | 1 | 0 | 0 | 9 | 1 | 8 | 0 |
| Florida, total | 11 | 670 | 142 | 3 | 14 | 55 | 26 | 44 | 83 | 32 | 51 | 0 |
| Barry University | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Caribbean Ctr Advanced Studies | 150 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida Atlantic University | 138 | 18 | 6 | 0 | 0 | 1 | 3 | 2 | 0 | 0 | 0 | 0 |
| Florida Institute of Technology | 141 | 15 | 6 | 0 | 0 | 5 | 1 | 0 | 2 | 2 | 0 | 0 |
| Florida International University | 138 | 18 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida State University | 67 | 111 | 4 | 0 | 0 | 0 | 3 | 1 | 22 | 13 | 9 | 0 |
| Nova Southeastern University | 122 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Central Florida | 120 | 38 | 22 | 0 | 2 | 12 | 4 | 4 | 4 | 4 | 0 | 0 |
| University of Florida | 21 | 289 | 85 | 3 | 11 | 25 | 14 | 32 | 44 | 12 | 32 | 0 |
| University of Miami | 80 | 87 | 6 | 0 | 0 | 2 | 1 | 3 | 6 | 0 | 6 | 0 |
| University of South Florida | 105 | 53 | 10 | 0 | 1 | 7 | 0 | 2 | 5 | 1 | 4 | 0 |
| Georgia, total | 17 | 496 | 120 | 7 | 16 | 39 | 22 | 36 | 76 | 21 | 55 | 0 |
| Clark Atlanta University | 142 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| Emory University | 84 | 83 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 1 | 22 | 0 |
| Georgia Inst of Tech | 38 | 180 | 118 | 5 | 16 | 39 | 22 | 36 | 22 | 9 | 13 | 0 |
| Georgia State University | 113 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 2 | 0 |
| Inst of Paper Science & Tech | 151 | 5 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Medical College of Georgia | 147 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mercer U Southern Col Pharm | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Georgia | 46 | 160 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 7 | 16 | 0 |
| Hawaii, total | 38 | 125 | 11 | 0 | 0 | 8 | 1 | 2 | 9 | 3 | 6 | 0 |
| University of Hawaii at Manoa | 63 | 125 | 11 | 0 | 0 | 8 | 1 | 2 | 9 | 3 | 6 | 0 |
| Idaho, total | 43 | 57 | 7 | 1 | 0 | 1 | 3 | 2 | 1 | 0 | 1 | 0 |
| Idaho State University | 144 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Idaho | 113 | 45 | 7 | 1 | 0 | 1 | 3 | 2 | 1 | 0 | 1 | 0 |
| Illinois, total | 5 | 1,412 | 299 | 25 | 38 | 71 | 57 | 108 | 208 | 98 | 110 | 0 |
| De Paul University | 145 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finch U Hlth Sci/Chgo Med Sch | 142 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Illinois Institute Technology | 89 | 74 | 26 | 8 | 2 | 10 | 3 | 3 | 2 | 1 | 1 | 0 |
| Illinois State University | 152 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Loyola University of Chicago | 107 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 |
| Lutheran Sch Theology at Chicago | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Northern Illinois University | 118 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 | 0 |
| Northwestern Univ | 27 | 252 | 75 | 6 | 6 | 12 | 8 | 43 | 41 | 12 | 29 | 0 |
| Roosevelt University | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rush University | 147 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Southern Illinois U Edwardsville | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Southern Illinois U Carbondale | 108 | 50 | 6 | 0 | 0 | 1 | 0 | 5 | 6 | 2 | 4 | 0 |
| University of Chicago | 30 | 241 | 1 | 1 | 0 | 0 | 0 | 0 | 55 | 33 | 22 | 0 |
| U of Illinois Chicago | 52 | 147 | 34 | 0 | 6 | 7 | 16 | 5 | 16 | 4 | 12 | 0 |
| U of Illinois Urbana-Champaign | 3 | 519 | 157 | 10 | 24 | 41 | 30 | 52 | 79 | 45 | 34 | 0 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 1995

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]



| State and institution | Earth, atmos, ocean | Mathematics | Computer sciences | Biological & agricultural sciences | | | Psychology | Social sciences | Non-S&E, total | Grand total, all fields |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Biological | Agricultural | | | | |
| Colorado, total | 36 | 22 | 18 | 128 | 90 | 38 | 57 | 66 | 203 | 733 |
| Colorado School of Mines | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 43 |
| Colorado State University | 11 | 4 | 5 | 68 | 30 | 38 | 16 | 16 | 35 | 208 |
| University of Colorado Boulder | 16 | 8 | 12 | 55 | 55 | 0 | 17 | 39 | 77 | 344 |
| University of Denver | 1 | 0 | 1 | 5 | 5 | 0 | 18 | 8 | 43 | 82 |
| University of Northern Colorado | 0 | 2 | 0 | 0 | 0 | 0 | 6 | 0 | 48 | 56 |
| Connecticut, total | 4 | 23 | 16 | 119 | 113 | 6 | 33 | 91 | 247 | 654 |
| University of Connecticut | 1 | 8 | 6 | 49 | 48 | 1 | 23 | 30 | 100 | 264 |
| University of Hartford | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 |
| Wesleyan University | 0 | 5 | 0 | 11 | 11 | 0 | 0 | 1 | 1 | 22 |
| Yale University | 3 | 10 | 10 | 59 | 54 | 5 | 10 | 60 | 143 | 365 |
| Delaware, total | 10 | 4 | 4 | 13 | 10 | 3 | 15 | 9 | 55 | 155 |
| University of Delaware | 10 | 4 | 4 | 13 | 10 | 3 | 15 | 9 | 39 | 139 |
| Wilmington College | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 |
| District of Columbia, total | 1 | 6 | 6 | 55 | 55 | 0 | 44 | 105 | 187 | 470 |
| American University | 0 | 1 | 0 | 1 | 1 | 0 | 12 | 32 | 10 | 64 |
| Catholic University of America | 0 | 0 | 0 | 1 | 1 | 0 | 7 | 10 | 66 | 99 |
| Gallaudet University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 |
| George Washington University | 1 | 4 | 6 | 24 | 24 | 0 | 8 | 28 | 57 | 156 |
| Georgetown University | 0 | 0 | 0 | 21 | 21 | 0 | 0 | 22 | 10 | 58 |
| Howard University | 0 | 1 | 0 | 8 | 8 | 0 | 17 | 13 | 35 | 84 |
| Florida, total | 22 | 26 | 45 | 133 | 116 | 17 | 134 | 85 | 782 | 1,452 |
| Barry University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 |
| Caribbean Ctr Advanced Studies | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| Florida Atlantic University | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 7 | 19 | 37 |
| Florida Institute of Technology | 0 | 3 | 3 | 1 | 1 | 0 | 0 | 0 | 2 | 17 |
| Florida International University | 1 | 0 | 2 | 1 | 1 | 0 | 7 | 4 | 26 | 44 |
| Florida State University | 8 | 8 | 6 | 17 | 17 | 0 | 24 | 22 | 184 | 295 |
| Nova Southeastern University | 0 | 0 | 11 | 0 | 0 | 0 | 19 | 5 | 299 | 334 |
| University of Central Florida | 0 | 0 | 9 | 0 | 0 | 0 | 3 | 0 | 28 | 66 |
| University of Florida | 6 | 10 | 6 | 65 | 48 | 17 | 34 | 39 | 111 | 400 |
| University of Miami | 3 | 2 | 0 | 37 | 37 | 0 | 29 | 4 | 54 | 141 |
| University of South Florida | 4 | 3 | 5 | 12 | 12 | 0 | 10 | 4 | 50 | 103 |
| Georgia, total | 14 | 15 | 11 | 124 | 97 | 27 | 82 | 54 | 356 | 852 |
| Clark Atlanta University | 0 | 0 | 0 | 3 | 3 | 0 | 4 | 5 | 12 | 26 |
| Emory University | 0 | 3 | 0 | 25 | 25 | 0 | 11 | 21 | 69 | 152 |
| Georgia Inst of Tech | 12 | 6 | 10 | 4 | 4 | 0 | 8 | 0 | 9 | 189 |
| Georgia State University | 0 | 0 | 1 | 11 | 11 | 0 | 20 | 7 | 81 | 126 |
| Inst of Paper Science & Tech | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 5 |
| Medical College of Georgia | 0 | 0 | 0 | 9 | 9 | 0 | 0 | 0 | 2 | 11 |
| Mercer U Southern Col Pharm | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| University of Georgia | 2 | 6 | 0 | 69 | 45 | 24 | 39 | 21 | 182 | 342 |
| Hawaii, total | 12 | 0 | 5 | 37 | 26 | 11 | 2 | 49 | 30 | 155 |
| University of Hawaii at Manoa | 12 | 0 | 5 | 37 | 26 | 11 | 2 | 49 | 30 | 155 |
| Idaho, total | 3 | 8 | 0 | 32 | 12 | 20 | 0 | 6 | 23 | 80 |
| Idaho State University | 0 | 5 | 0 | 5 | 5 | 0 | 0 | 2 | 2 | 14 |
| University of Idaho | 3 | 3 | 0 | 27 | 7 | 20 | 0 | 4 | 21 | 66 |
| Illinois, total | 20 | 75 | 89 | 296 | 249 | 47 | 165 | 260 | 931 | 2,343 |
| De Paul University | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 2 | 13 |
| Finch U Hlth Sci/Chgo Med Sch | 0 | 0 | 0 | 9 | 9 | 0 | 5 | 0 | 0 | 14 |
| Illinois Institute Technology | 0 | 1 | 26 | 5 | 5 | 0 | 14 | 0 | 1 | 75 |
| Illinois State University | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 54 | 58 |
| Loyola University of Chicago | 0 | 0 | 0 | 18 | 18 | 0 | 27 | 3 | 55 | 106 |
| Lutheran Sch Theology at Chicago | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 |
| Northern Illinois University | 3 | 7 | 0 | 3 | 3 | 0 | 11 | 11 | 75 | 115 |
| Northwestern Univ | 2 | 17 | 9 | 52 | 52 | 0 | 21 | 35 | 122 | 374 |
| Roosevelt University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 14 |
| Rush University | 0 | 0 | 0 | 8 | 8 | 0 | 0 | 0 | 7 | 16 |
| Southern Illinois U Edwardsville | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 |
| Southern Illinois U Carbondale | 0 | 2 | 0 | 8 | 7 | 1 | 18 | 10 | 117 | 167 |
| University of Chicago | 6 | 17 | 5 | 45 | 45 | 0 | 15 | 97 | 126 | 367 |
| U of Illinois Chicago | 0 | 7 | 13 | 36 | 36 | 0 | 16 | 25 | 100 | 247 |
| U of Illinois Urbana-Champaign | 9 | 22 | 36 | 112 | 66 | 46 | 27 | 77 | 242 | 761 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 1995

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]



| State and institution | S&E rank | Total S&E | Engineering | | | | | | Physical sciences | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Total | Chemical | Civil | Electrical | Mechanical | Other engineering | Total | Physics & astronomy | Chemistry | Other physical sciences |
| Indiana, total | 10 | 690 | 177 | 31 | 24 | 49 | 25 | 48 | 146 | 59 | 86 | 1 |
| Ball State University | 144 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana State University | 147 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana U at Bloomington | 40 | 176 | 0 | 0 | 0 | 0 | 0 | 0 | 45 | 20 | 25 | 0 |
| Indiana U Purdue U Indianapolis | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Purdue University | 14 | 399 | 140 | 21 | 20 | 37 | 22 | 40 | 82 | 26 | 55 | 1 |
| University of Notre Dame | 77 | 94 | 37 | 10 | 4 | 12 | 3 | 8 | 19 | 13 | 6 | 0 |
| Iowa, total | 21 | 444 | 119 | 9 | 16 | 25 | 27 | 42 | 57 | 20 | 37 | 0 |
| Drake University | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Iowa State University | 26 | 260 | 80 | 4 | 10 | 20 | 20 | 26 | 39 | 13 | 26 | 0 |
| Maharishi International U | 150 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| University of Iowa | 41 | 173 | 34 | 5 | 6 | 5 | 7 | 11 | 17 | 6 | 11 | 0 |
| University of Northern Iowa | 151 | 5 | 5 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| Kansas, total | 29 | 260 | 51 | 3 | 6 | 16 | 5 | 21 | 38 | 12 | 26 | 0 |
| Kansas State University | 68 | 110 | 22 | 3 | 1 | 6 | 2 | 10 | 13 | 4 | 9 | 0 |
| University of Kansas | 60 | 132 | 14 | 0 | 5 | 4 | 1 | 4 | 25 | 8 | 17 | 0 |
| Wichita State University | 138 | 18 | 15 | 0 | 0 | 6 | 2 | 7 | 0 | 0 | 0 | 0 |
| Kentucky, total | 33 | 198 | 23 | 4 | 2 | 5 | 5 | 7 | 22 | 3 | 19 | 0 |
| Southern Baptist Theological Sem | 155 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Kentucky | 51 | 151 | 18 | 3 | 2 | 3 | 5 | 5 | 16 | 3 | 13 | 0 |
| University of Louisville | 112 | 46 | 5 | 1 | 0 | 2 | 0 | 2 | 6 | 0 | 6 | 0 |
| Louisiana, total | 26 | 300 | 50 | 15 | 11 | 11 | 4 | 9 | 33 | 8 | 25 | 0 |
| Grambling State University | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LA St U & A&M Col | 56 | 140 | 20 | 9 | 5 | 2 | 1 | 3 | 23 | 7 | 16 | 0 |
| LA St U Med Ctr Shreveport | 142 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LA St U Medical Center | 134 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana Tech University | 151 | 5 | 5 | 0 | 2 | 1 | 0 | 2 | 0 | 0 | 0 | 0 |
| New Orleans Baptist Theol Sem | 154 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Northeast Louisiana University | 154 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Southern U A&M Col Baton Rouge | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tulane University | 93 | 69 | 18 | 6 | 4 | 1 | 3 | 4 | 6 | 1 | 5 | 0 |
| University of New Orleans | 136 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 |
| U of Southwestern Louisiana | 130 | 26 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maine, total | 50 | 28 | 5 | 0 | 1 | 0 | 0 | 4 | 5 | 4 | 1 | 0 |
| University of Maine | 128 | 28 | 5 | 0 | 1 | 0 | 0 | 4 | 5 | 4 | 1 | 0 |
| Maryland, total | 15 | 604 | 147 | 17 | 12 | 61 | 27 | 30 | 74 | 39 | 33 | 2 |
| Johns Hopkins University | 37 | 185 | 36 | 11 | 7 | 7 | 4 | 7 | 23 | 11 | 10 | 2 |
| Loyola College | 147 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Morgan State University | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Peabody Inst of Johns Hopkins U | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Uniformed Services U of Hlth Sci | 143 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U of Maryland Baltimore | 123 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 |
| U of Maryland College Park | 16 | 320 | 104 | 6 | 5 | 50 | 20 | 23 | 43 | 27 | 16 | 0 |
| U of Maryland Baltimore County | 118 | 40 | 7 | 0 | 0 | 4 | 3 | 0 | 5 | 1 | 4 | 0 |
| U of Maryland Eastern Shore | 153 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts, total | 4 | 1,445 | 367 | 54 | 27 | 104 | 57 | 125 | 266 | 143 | 121 | 2 |
| American International College | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Boston College | 118 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 1 | 7 | 0 |
| Boston University | 49 | 156 | 23 | 0 | 0 | 8 | 1 | 14 | 25 | 19 | 6 | 0 |
| Brandeis University | 95 | 66 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 3 | 8 | 0 |
| Clark University | 137 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 2 | 0 |
| Harvard University | 20 | 297 | 10 | 0 | 0 | 1 | 1 | 8 | 49 | 29 | 20 | 0 |
| MA Col Phar Allied Hlth | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts Institute of Tech | 4 | 486 | 236 | 30 | 18 | 52 | 42 | 94 | 97 | 58 | 37 | 2 |
| New England Conserv of Music | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Northeastern University | 89 | 74 | 17 | 1 | 1 | 9 | 3 | 3 | 15 | 9 | 6 | 0 |
| Simmons College | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Smith College | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Springfield College | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tufts University | 91 | 72 | 10 | 3 | 1 | 3 | 3 | 0 | 10 | 7 | 3 | 0 |
| U of Massachusetts Amherst | 42 | 171 | 47 | 12 | 5 | 23 | 6 | 1 | 29 | 8 | 21 | 0 |

See explanatory information, if any, and SOURCE at end of table





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## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 1995

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]



| State and institution | Earth, atmos, ocean | Mathematics | Computer sciences | Biological & agricultural sciences | | | Psychology | Social sciences | Non-S&E, total | Grand total, all fields |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Biological | Agricultural | | | | |
| Indiana, total | 14 | 28 | 16 | 127 | 108 | 19 | 72 | 110 | 416 | 1,106 |
| Ball State University | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 2 | 32 | 44 |
| Indiana State University | 0 | 0 | 0 | 4 | 4 | 0 | 3 | 2 | 16 | 25 |
| Indiana U at Bloomington | 9 | 9 | 7 | 38 | 38 | 0 | 19 | 49 | 231 | 407 |
| Indiana U Purdue U Indianapolis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 |
| Purdue University | 4 | 16 | 9 | 79 | 60 | 19 | 31 | 38 | 108 | 507 |
| University of Notre Dame | 1 | 3 | 0 | 6 | 6 | 0 | 9 | 19 | 24 | 118 |
| Iowa, total | 8 | 31 | 13 | 128 | 96 | 32 | 34 | 54 | 235 | 679 |
| Drake University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| Iowa State University | 3 | 10 | 7 | 77 | 45 | 32 | 16 | 28 | 58 | 318 |
| Maharishi International U | 0 | 0 | 0 | 1 | 1 | 0 | 4 | 0 | 1 | 7 |
| University of Iowa | 5 | 21 | 6 | 50 | 50 | 0 | 14 | 26 | 166 | 339 |
| University of Northern Iowa | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 9 |
| Kansas, total | 6 | 10 | 3 | 95 | 65 | 30 | 38 | 19 | 187 | 447 |
| Kansas State University | 0 | 7 | 2 | 46 | 16 | 30 | 11 | 9 | 55 | 165 |
| University of Kansas | 6 | 2 | 1 | 49 | 49 | 0 | 25 | 10 | 128 | 260 |
| Wichita State University | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 4 | 22 |
| Kentucky, total | 2 | 5 | 3 | 74 | 64 | 10 | 31 | 38 | 119 | 317 |
| Southern Baptist Theological Sem | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 34 | 35 |
| University of Kentucky | 2 | 5 | 1 | 53 | 43 | 10 | 23 | 33 | 71 | 222 |
| University of Louisville | 0 | 0 | 2 | 21 | 21 | 0 | 7 | 5 | 14 | 60 |
| Louisiana, total | 8 | 12 | 28 | 101 | 77 | 24 | 32 | 36 | 204 | 504 |
| Grambling State University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 13 |
| LA St U & A&M Col | 7 | 7 | 12 | 43 | 20 | 23 | 19 | 9 | 82 | 222 |
| LA St U Med Ctr Shreveport | 0 | 0 | 0 | 14 | 14 | 0 | 0 | 0 | 0 | 14 |
| LA St U Medical Center | 0 | 0 | 0 | 22 | 22 | 0 | 0 | 0 | 11 | 33 |
| Louisiana Tech University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 18 |
| New Orleans Baptist Theol Sem | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 35 | 37 |
| Northeast Louisiana University | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 2 | 4 |
| Southern U A&M Col Baton Rouge | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Tulane University | 1 | 0 | 6 | 17 | 16 | 1 | 8 | 13 | 26 | 95 |
| University of New Orleans | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 13 | 16 | 36 |
| U of Southwestern Louisiana | 0 | 5 | 10 | 3 | 3 | 0 | 0 | 1 | 5 | 31 |
| Maine, total | 2 | 1 | 0 | 12 | 6 | 6 | 3 | 0 | 12 | 40 |
| University of Maine | 2 | 1 | 0 | 12 | 6 | 6 | 3 | 0 | 12 | 40 |
| Maryland, total | 20 | 21 | 32 | 169 | 157 | 12 | 54 | 87 | 281 | 885 |
| Johns Hopkins University | 6 | 2 | 4 | 77 | 77 | 0 | 3 | 34 | 86 | 271 |
| Loyola College | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 9 |
| Morgan State University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 |
| Peabody Inst of Johns Hopkins U | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 |
| Uniformed Services U of Hlth Sci | 0 | 0 | 0 | 9 | 9 | 0 | 4 | 0 | 1 | 14 |
| U of Maryland Baltimore | 0 | 0 | 0 | 31 | 31 | 0 | 0 | 0 | 23 | 57 |
| U of Maryland College Park | 11 | 19 | 21 | 42 | 30 | 12 | 30 | 50 | 156 | 476 |
| U of Maryland Baltimore County | 0 | 0 | 7 | 10 | 10 | 0 | 8 | 3 | 2 | 42 |
| U of Maryland Eastern Shore | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Massachusetts, total | 38 | 56 | 51 | 306 | 295 | 11 | 87 | 274 | 751 | 2,196 |
| American International College | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 10 |
| Boston College | 0 | 0 | 0 | 4 | 3 | 1 | 15 | 13 | 68 | 108 |
| Boston University | 4 | 3 | 2 | 43 | 43 | 0 | 12 | 44 | 138 | 294 |
| Brandeis University | 0 | 5 | 5 | 19 | 19 | 0 | 2 | 24 | 35 | 101 |
| Clark University | 1 | 0 | 0 | 2 | 2 | 0 | 6 | 6 | 2 | 21 |
| Harvard University | 3 | 13 | 6 | 124 | 124 | 0 | 10 | 82 | 267 | 564 |
| MA Col Phar Allied Hlth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 |
| Massachusetts Institute of Tech | 24 | 26 | 20 | 30 | 30 | 0 | 4 | 49 | 36 | 522 |
| New England Conserv of Music | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| Northeastern University | 0 | 2 | 2 | 4 | 4 | 0 | 15 | 19 | 1 | 75 |
| Simmons College | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 |
| Smith College | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 |
| Springfield College | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Tufts University | 0 | 1 | 0 | 36 | 36 | 0 | 8 | 7 | 11 | 83 |
| U of Massachusetts Amherst | 4 | 6 | 14 | 31 | 21 | 10 | 11 | 29 | 135 | 306 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 1995

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]



| State and institution | S&E rank | Total S&E | Engineering | | | | | | Physical sciences | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Total | Chemical | Civil | Electrical | Mechanical | Other engineering | Total | Physics & astronomy | Chemistry | Other physical sciences |
| Massachusetts, continued | | | | | | | | | | | | |
| U of Massachusetts Boston | 148 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U of Massachusetts Worcester | 150 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U of Massachusetts Lowell | 121 | 37 | 16 | 8 | 2 | 5 | 1 | 0 | 15 | 7 | 8 | 0 |
| Worcester Polytechnic Institute | 143 | 13 | 8 | 0 | 0 | 3 | 0 | 5 | 3 | 0 | 3 | 0 |
| Michigan, total | 8 | 998 | 271 | 22 | 32 | 69 | 55 | 93 | 136 | 51 | 84 | 1 |
| Andrews University | 151 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Michigan State University | 22 | 283 | 36 | 7 | 6 | 12 | 7 | 4 | 43 | 16 | 26 | 1 |
| Michigan Technological U | 109 | 49 | 21 | 3 | 7 | 1 | 4 | 6 | 11 | 4 | 7 | 0 |
| Oakland University | 147 | 9 | 6 | 0 | 0 | 0 | 0 | 6 | 1 | 1 | 0 | 0 |
| University of Detroit Mercy | 139 | 17 | 2 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 1 | 0 |
| University of Michigan Ann Arbor | 5 | 472 | 178 | 8 | 16 | 51 | 29 | 74 | 57 | 25 | 32 | 0 |
| Wayne State University | 61 | 129 | 28 | 4 | 3 | 5 | 13 | 3 | 23 | 5 | 18 | 0 |
| Western Michigan University | 123 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota, total | 18 | 475 | 113 | 17 | 12 | 24 | 23 | 37 | 53 | 24 | 29 | 0 |
| Luther Seminary | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mayo Graduate School | 148 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U of Minnesota Twin Cities | 8 | 439 | 113 | 17 | 12 | 24 | 23 | 37 | 53 | 24 | 29 | 0 |
| University of St Thomas | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Walden University | 128 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi, total | 36 | 172 | 27 | 4 | 0 | 11 | 2 | 10 | 17 | 4 | 13 | 0 |
| Delta State University | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Jackson State University | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi State University | 85 | 81 | 19 | 3 | 0 | 8 | 1 | 7 | 0 | 0 | 0 | 0 |
| Reformed Theological Sem | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U of Mississippi Med Ctr | 144 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U of Mississippi | 118 | 40 | 8 | 1 | 0 | 3 | 1 | 3 | 5 | 3 | 2 | 0 |
| U of Southern Mississippi | 119 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 1 | 11 | 0 |
| Missouri, total | 22 | 411 | 104 | 8 | 9 | 19 | 14 | 54 | 47 | 14 | 32 | 1 |
| Concordia Seminary | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Midwestern Baptist Theol Sem | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| St Louis University | 118 | 40 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| University Missouri Columbia | 54 | 145 | 31 | 5 | 5 | 7 | 3 | 11 | 11 | 3 | 8 | 0 |
| University Missouri Kansas City | 136 | 20 | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 2 | 0 |
| University Missouri Rolla | 99 | 60 | 51 | 1 | 3 | 3 | 7 | 37 | 6 | 4 | 2 | 0 |
| University Missouri St Louis | 138 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 0 |
| Washington University | 62 | 128 | 20 | 2 | 1 | 8 | 4 | 5 | 21 | 7 | 13 | 1 |
| Montana, total | 47 | 47 | 5 | 1 | 2 | 2 | 0 | 0 | 9 | 5 | 4 | 0 |
| Montana State University | 129 | 27 | 5 | 1 | 2 | 2 | 0 | 0 | 8 | 5 | 3 | 0 |
| University of Montana | 136 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| Nebraska, total | 37 | 141 | 14 | 0 | 2 | 5 | 1 | 6 | 18 | 3 | 15 | 0 |
| Creighton University | 150 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U of Nebraska at Lincoln | 57 | 135 | 14 | 0 | 2 | 5 | 1 | 6 | 18 | 3 | 15 | 0 |
| Nevada, total | 44 | 54 | 12 | 0 | 1 | 5 | 1 | 5 | 6 | 1 | 5 | 0 |
| University of Nevada-Las Vegas | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Nevada-Reno | 104 | 54 | 12 | 0 | 1 | 5 | 1 | 5 | 6 | 1 | 5 | 0 |
| New Hampshire, total | 40 | 87 | 11 | 1 | 0 | 0 | 1 | 9 | 23 | 11 | 10 | 2 |
| Dartmouth College | 113 | 45 | 8 | 0 | 0 | 0 | 0 | 8 | 10 | 7 | 3 | 0 |
| University of New Hampshire | 116 | 42 | 3 | 1 | 0 | 0 | 1 | 1 | 13 | 4 | 7 | 2 |
| New Jersey, total | 13 | 627 | 138 | 19 | 18 | 39 | 20 | 42 | 106 | 51 | 54 | 1 |
| Drew University | 155 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fairleigh Dickinson U Rutherford | 142 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Jersey Institute Technology | 129 | 27 | 22 | 3 | 7 | 7 | 5 | 0 | 0 | 0 | 0 | 0 |
| Princeton Theological Seminary | 155 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Princeton University | 33 | 221 | 48 | 11 | 8 | 18 | 7 | 4 | 62 | 35 | 27 | 0 |
| Rutgers St U NJ New Brunswick | 26 | 260 | 55 | 4 | 3 | 11 | 7 | 30 | 28 | 14 | 13 | 1 |
| Rutgers St U NJ Newark Campus | 130 | 26 | 1 | 0 | 0 | 0 | 0 | 1 | 7 | 0 | 7 | 0 |
| Seton Hall University | 123 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 0 |
| Stevens Institute of Technology | 135 | 21 | 12 | 1 | 0 | 3 | 1 | 7 | 2 | 2 | 0 | 0 |
| U of Medicine & Dentistry of NJ | 134 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 1995

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]



| State and institution | Earth, atmos, ocean | Mathematics | Computer sciences | Biological & agricultural sciences | | | Psychology | Social sciences | Non-S&E, total | Grand total, all fields |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Biological | Agricultural | | | | |
| Massachusetts, continued | | | | | | | | | | |
| U of Massachusetts Boston | 2 | 0 | 0 | 1 | 1 | 0 | 4 | 1 | 0 | 8 |
| U of Massachusetts Worcester | 0 | 0 | 0 | 6 | 6 | 0 | 0 | 0 | 0 | 6 |
| U of Massachusetts Lowell | 0 | 0 | 2 | 4 | 4 | 0 | 0 | 0 | 21 | 58 |
| Worcester Polytechnic Institute | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 13 |
| Michigan, total | 28 | 44 | 28 | 215 | 164 | 51 | 131 | 145 | 524 | 1,522 |
| Andrews University | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 17 | 22 |
| Michigan State University | 4 | 8 | 11 | 96 | 54 | 42 | 38 | 47 | 130 | 413 |
| Michigan Technological U | 4 | 0 | 0 | 13 | 6 | 7 | 0 | 0 | 5 | 54 |
| Oakland University | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 2 | 11 |
| University of Detroit Mercy | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 17 |
| University of Michigan Ann Arbor | 19 | 21 | 11 | 66 | 64 | 2 | 38 | 82 | 243 | 715 |
| Wayne State University | 0 | 5 | 6 | 38 | 38 | 0 | 22 | 7 | 87 | 216 |
| Western Michigan University | 1 | 10 | 0 | 0 | 0 | 0 | 14 | 9 | 40 | 74 |
| Minnesota, total | 3 | 20 | 17 | 142 | 96 | 46 | 74 | 53 | 386 | 861 |
| Luther Seminary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| Mayo Graduate School | 0 | 0 | 0 | 8 | 8 | 0 | 0 | 0 | 0 | 8 |
| U of Minnesota Twin Cities | 3 | 20 | 17 | 133 | 87 | 46 | 49 | 51 | 244 | 683 |
| University of St Thomas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 17 |
| Walden University | 0 | 0 | 0 | 1 | 1 | 0 | 25 | 2 | 121 | 149 |
| Mississippi, total | 1 | 3 | 2 | 63 | 32 | 31 | 42 | 17 | 177 | 349 |
| Delta State University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 10 |
| Jackson State University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| Mississippi State University | 0 | 1 | 1 | 43 | 12 | 31 | 5 | 12 | 37 | 118 |
| Reformed Theological Sem | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 |
| U of Mississippi Med Ctr | 0 | 0 | 0 | 12 | 12 | 0 | 0 | 0 | 0 | 12 |
| U of Mississippi | 0 | 2 | 1 | 3 | 3 | 0 | 16 | 5 | 54 | 94 |
| U of Southern Mississippi | 1 | 0 | 0 | 5 | 5 | 0 | 21 | 0 | 63 | 102 |
| Missouri, total | 11 | 13 | 5 | 109 | 94 | 15 | 68 | 54 | 223 | 634 |
| Concordia Seminary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 |
| Midwestern Baptist Theol Sem | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 23 |
| St Louis University | 3 | 1 | 0 | 17 | 17 | 0 | 12 | 6 | 66 | 106 |
| University Missouri Columbia | 4 | 3 | 0 | 37 | 22 | 15 | 30 | 29 | 72 | 217 |
| University Missouri Kansas City | 0 | 0 | 0 | 4 | 4 | 0 | 11 | 2 | 17 | 37 |
| University Missouri Rolla | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 60 |
| University Missouri St Louis | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 2 | 6 | 24 |
| Washington University | 3 | 9 | 3 | 51 | 51 | 0 | 6 | 15 | 36 | 164 |
| Montana, total | 2 | 7 | 0 | 16 | 10 | 6 | 8 | 0 | 20 | 67 |
| Montana State University | 1 | 3 | 0 | 10 | 7 | 3 | 0 | 0 | 13 | 40 |
| University of Montana | 1 | 4 | 0 | 6 | 3 | 3 | 8 | 0 | 7 | 27 |
| Nebraska, total | 4 | 8 | 3 | 60 | 35 | 25 | 22 | 12 | 114 | 255 |
| Creighton University | 0 | 0 | 0 | 6 | 6 | 0 | 0 | 0 | 0 | 6 |
| U of Nebraska at Lincoln | 4 | 8 | 3 | 54 | 29 | 25 | 22 | 12 | 114 | 249 |
| Nevada, total | 10 | 0 | 1 | 14 | 14 | 0 | 9 | 2 | 26 | 80 |
| University of Nevada Las Vegas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 13 |
| University of Nevada Reno | 10 | 0 | 1 | 14 | 14 | 0 | 9 | 2 | 13 | 67 |
| New Hampshire, total | 2 | 6 | 1 | 33 | 30 | 3 | 2 | 9 | 9 | 96 |
| Dartmouth College | 2 | 2 | 1 | 21 | 21 | 0 | 1 | 0 | 0 | 45 |
| University of New Hampshire | 0 | 4 | 0 | 12 | 9 | 3 | 1 | 9 | 9 | 51 |
| New Jersey, total | 22 | 48 | 30 | 127 | 115 | 12 | 68 | 88 | 250 | 877 |
| Drew University | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 13 | 14 |
| Fairleigh Dickinson U Rutherford | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 14 |
| New Jersey Institute Technology | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| Princeton Theological Seminary | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 13 | 14 |
| Princeton University | 5 | 15 | 7 | 23 | 23 | 0 | 9 | 52 | 79 | 300 |
| Rutgers St U NJ New Brunswick | 16 | 30 | 15 | 74 | 62 | 12 | 12 | 30 | 121 | 381 |
| Rutgers St U NJ Newark Campus | 0 | 0 | 1 | 7 | 7 | 0 | 4 | 6 | 13 | 39 |
| Seton Hall University | 0 | 0 | 0 | 1 | 1 | 0 | 26 | 0 | 10 | 44 |
| Stevens Institute of Technology | 0 | 3 | 3 | 0 | 0 | 0 | 1 | 0 | 1 | 22 |
| U of Medicine & Dentistry of NJ | 0 | 0 | 0 | 22 | 22 | 0 | 0 | 0 | 0 | 22 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 1995

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]



| State and institution | S&E rank | Total S&E | Engineering | | | | | | Physical sciences | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Total | Chemical | Civil | Electrical | Mechanical | Other engineering | Total | Physics & astronomy | Chemistry | Other physical sciences |
| New Mexico, total | 35 | 176 | 51 | 9 | 4 | 20 | 9 | 9 | 25 | 13 | 12 | 0 |
| New Mexico Inst Mining & Tech | 147 | 9 | 2 | 2 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 |
| New Mexico State University | 102 | 56 | 21 | 4 | 1 | 5 | 5 | 6 | 9 | 5 | 4 | 0 |
| University of New Mexico | 67 | 111 | 28 | 3 | 3 | 15 | 4 | 3 | 14 | 7 | 7 | 0 |
| New York, total | 2 | 2,471 | 426 | 50 | 45 | 161 | 66 | 104 | 382 | 174 | 206 | 2 |
| Adelphi University | 129 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Albany Medical College | 146 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alfred University | 147 | 9 | 9 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 |
| Clarkson University | 122 | 35 | 27 | 12 | 2 | 3 | 5 | 5 | 5 | 0 | 5 | 0 |
| Columbia U in City of New York | 23 | 281 | 33 | 2 | 3 | 17 | 6 | 5 | 48 | 26 | 22 | 0 |
| Cornell U Medical Campus | 132 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cornell U Endowed Colleges | 11 | 430 | 88 | 8 | 14 | 28 | 11 | 27 | 71 | 34 | 37 | 0 |
| CUNY Grad School & U Center | 34 | 193 | 15 | 1 | 2 | 8 | 1 | 3 | 30 | 14 | 16 | 0 |
| Fordham University | 112 | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hofstra University | 125 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Jewish Theological Sem America | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Juilliard School | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Long Island University Brooklyn | 146 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Manhattan School of Music | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New School For Social Research | 110 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New York Medical College | 152 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New York University | 47 | 159 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 7 | 14 | 1 |
| Pace University New York Campus | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Polytechnic University | 115 | 43 | 26 | 0 | 5 | 11 | 1 | 9 | 13 | 3 | 10 | 0 |
| Rensselaer Polytechnic Institute | 55 | 141 | 79 | 9 | 6 | 22 | 17 | 25 | 30 | 11 | 19 | 0 |
| Rockefeller University | 136 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 |
| St John's U (Jamaica, NY) | 145 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Syracuse University | 59 | 133 | 39 | 3 | 2 | 28 | 1 | 5 | 23 | 12 | 10 | 1 |
| SUNY at Albany | 69 | 106 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 5 | 5 | 0 |
| SUNY at Binghamton | 88 | 75 | 9 | 0 | 0 | 4 | 2 | 3 | 7 | 0 | 7 | 0 |
| SUNY at Buffalo | 35 | 192 | 58 | 11 | 6 | 22 | 13 | 6 | 27 | 7 | 20 | 0 |
| SUNY at Stony Brook | 36 | 188 | 22 | 0 | 0 | 12 | 5 | 5 | 48 | 30 | 18 | 0 |
| SUNY Col Environ Sci & Forestry | 127 | 29 | 5 | 0 | 5 | 0 | 0 | 0 | 3 | 0 | 3 | 0 |
| SUNY Col of Optometry | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUNY Health Sci Ctr Brooklyn | 142 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUNY Health Sci Ctr Syracuse | 145 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Teachers College Columbia U | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Union College | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Union Theological Seminary | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Rochester | 49 | 156 | 16 | 4 | 0 | 6 | 4 | 2 | 43 | 23 | 20 | 0 |
| Yeshiva University | 113 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Carolina, total | 9 | 691 | 136 | 12 | 20 | 28 | 20 | 56 | 95 | 30 | 65 | 0 |
| Duke University | 39 | 177 | 36 | 0 | 4 | 16 | 7 | 9 | 25 | 13 | 12 | 0 |
| East Carolina University | 152 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Carolina State U Raleigh | 28 | 250 | 92 | 12 | 11 | 12 | 13 | 44 | 22 | 9 | 13 | 0 |
| U of North Carolina Chapel Hill | 31 | 227 | 8 | 0 | 5 | 0 | 0 | 3 | 45 | 7 | 38 | 0 |
| U of North Carolina Greensboro | 140 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wake Forest University | 139 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 2 | 0 |

See explanatory information, if any, and SOURCE at end of table

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 1995

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]



| State and institution | Earth, atmos, ocean | Mathematics | Computer sciences | Biological & agricultural sciences | | | Psychology | Social sciences | Non-S&E, total | Grand total, all fields |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Biological | Agricultural | | | | |
| New Mexico, total | 7 | 7 | 9 | 38 | 29 | 9 | 18 | 21 | 106 | 282 |
| New Mexico Inst Mining & Tech | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| New Mexico State University | 0 | 0 | 2 | 20 | 11 | 9 | 4 | 0 | 20 | 76 |
| University of New Mexico | 4 | 7 | 5 | 18 | 18 | 0 | 14 | 21 | 86 | 197 |
| New York, total | 66 | 115 | 109 | 578 | 521 | 57 | 357 | 438 | 1,383 | 3,854 |
| Adelphi University | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 0 | 18 | 45 |
| Albany Medical College | 0 | 0 | 0 | 10 | 10 | 0 | 0 | 0 | 0 | 10 |
| Alfred University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| Clarkson University | 0 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 35 |
| Columbia U in City of New York | 25 | 13 | 10 | 62 | 62 | 0 | 24 | 66 | 167 | 448 |
| Cornell U Medical Campus | 0 | 0 | 0 | 24 | 24 | 0 | 0 | 0 | 0 | 24 |
| Cornell U Endowed Colleges | 10 | 18 | 11 | 136 | 89 | 47 | 10 | 86 | 95 | 525 |
| CUNY Grad School & U Center | 1 | 9 | 16 | 47 | 47 | 0 | 39 | 36 | 100 | 293 |
| Fordham University | 0 | 0 | 0 | 1 | 1 | 0 | 28 | 17 | 72 | 118 |
| Hofstra University | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 0 | 5 | 36 |
| Jewish Theological Sem America | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| Juilliard School | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 |
| Long Island University Brooklyn | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 10 |
| Manhattan School of Music | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 15 |
| New School For Social Research | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 19 | 1 | 49 |
| New York Medical College | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 4 |
| New York University | 2 | 19 | 11 | 43 | 43 | 0 | 20 | 42 | 222 | 381 |
| Pace University New York Campus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 |
| Polytechnic University | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 43 |
| Rensselaer Polytechnic Institute | 2 | 10 | 14 | 1 | 1 | 0 | 0 | 5 | 13 | 154 |
| Rockefeller University | 0 | 0 | 0 | 18 | 18 | 0 | 0 | 0 | 0 | 20 |
| St John's U (Jamaica, NY) | 0 | 0 | 0 | 4 | 4 | 0 | 7 | 0 | 9 | 20 |
| Syracuse University | 2 | 5 | 8 | 10 | 10 | 0 | 14 | 32 | 86 | 199 |
| SUNY at Albany | 5 | 6 | 1 | 13 | 13 | 0 | 36 | 35 | 50 | 156 |
| SUNY at Binghamton | 3 | 7 | 6 | 3 | 3 | 0 | 19 | 21 | 29 | 104 |
| SUNY at Buffalo | 2 | 5 | 15 | 47 | 47 | 0 | 15 | 23 | 127 | 319 |
| SUNY at Stony Brook | 7 | 16 | 5 | 41 | 41 | 0 | 19 | 30 | 54 | 242 |
| SUNY Col Environ Sci & Forestry | 6 | 0 | 0 | 14 | 4 | 10 | 1 | 0 | 0 | 29 |
| SUNY Col of Optometry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| SUNY Health Sci Ctr Brooklyn | 0 | 0 | 0 | 14 | 14 | 0 | 0 | 0 | 0 | 14 |
| SUNY Health Sci Ctr Syracuse | 0 | 0 | 0 | 11 | 11 | 0 | 0 | 0 | 0 | 11 |
| Teachers College Columbia U | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 212 | 212 |
| Union College | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Union Theological Seminary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 |
| University of Rochester | 1 | 4 | 9 | 45 | 45 | 0 | 12 | 26 | 85 | 241 |
| Yeshiva University | 0 | 0 | 0 | 29 | 29 | 0 | 16 | 0 | 13 | 58 |
| North Carolina, total | 20 | 21 | 20 | 245 | 195 | 50 | 54 | 100 | 310 | 1,001 |
| Duke University | 5 | 6 | 6 | 65 | 64 | 1 | 7 | 27 | 56 | 233 |
| East Carolina University | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 1 | 5 |
| North Carolina State U Raleigh | 8 | 11 | 6 | 84 | 35 | 49 | 7 | 20 | 55 | 305 |
| U of North Carolina Chapel Hill | 7 | 4 | 8 | 77 | 77 | 0 | 25 | 53 | 142 | 369 |
| U of North Carolina Greensboro | 0 | 0 | 0 | 1 | 1 | 0 | 15 | 0 | 56 | 72 |
| Wake Forest University | 0 | 0 | 0 | 14 | 14 | 0 | 0 | 0 | 0 | 17 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 1995

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]



| State and institution | S&E rank | Total S&E | Engineering | | | | | | Physical sciences | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Total | Chemical | Civil | Electrical | Mechanical | Other engineering | Total | Physics & astronomy | Chemistry | Other physical sciences |
| North Dakota, total | 45 | 53 | 4 | 0 | 0 | 4 | 0 | 0 | 8 | 0 | 8 | 0 |
| North Dakota State University | 133 | 23 | 3 | 0 | 0 | 3 | 0 | 0 | 4 | 0 | 4 | 0 |
| University of North Dakota | 126 | 30 | 1 | 0 | 0 | 1 | 0 | 0 | 4 | 0 | 4 | 0 |
| Ohio, total | 7 | 1,065 | 295 | 48 | 25 | 57 | 55 | 110 | 180 | 68 | 112 | 0 |
| Air Force Institute Technology | 142 | 14 | 9 | 0 | 0 | 1 | 0 | 8 | 2 | 2 | 0 | 0 |
| Bowling Green State University | 117 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Case Western Reserve University | 61 | 129 | 60 | 12 | 3 | 9 | 12 | 24 | 23 | 11 | 12 | 0 |
| Cleveland State University | 146 | 10 | 4 | 0 | 2 | 1 | 0 | 1 | 4 | 0 | 4 | 0 |
| Hebrew Union Col Jewish Inst Relig | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kent State University | 90 | 73 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 10 | 3 | 0 |
| Medical College of Ohio | 143 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Miami University Oxford Campus | 136 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 | 0 |
| Ohio State University | 12 | 425 | 102 | 10 | 13 | 15 | 25 | 39 | 62 | 18 | 44 | 0 |
| Ohio University | 121 | 37 | 10 | 5 | 0 | 4 | 1 | 0 | 7 | 7 | 0 | 0 |
| University of Akron | 82 | 85 | 28 | 17 | 2 | 3 | 3 | 3 | 31 | 8 | 23 | 0 |
| University of Cincinnati | 47 | 159 | 53 | 4 | 4 | 14 | 7 | 24 | 22 | 8 | 14 | 0 |
| University of Dayton | 136 | 20 | 18 | 0 | 0 | 6 | 5 | 7 | 0 | 0 | 0 | 0 |
| University of Toledo | 126 | 30 | 11 | 0 | 1 | 4 | 2 | 4 | 8 | 3 | 5 | 0 |
| Wright State University | 147 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma, total | 31 | 227 | 69 | 25 | 10 | 7 | 10 | 17 | 31 | 12 | 19 | 0 |
| Oklahoma State University | 78 | 92 | 23 | 2 | 2 | 3 | 5 | 11 | 11 | 6 | 5 | 0 |
| University of Oklahoma Norman | 66 | 112 | 32 | 12 | 8 | 4 | 2 | 6 | 20 | 6 | 14 | 0 |
| University of Tulsa | 133 | 23 | 14 | 11 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| Oregon, total | 25 | 301 | 35 | 3 | 6 | 11 | 5 | 10 | 43 | 20 | 22 | 1 |
| Oregon Grad Inst Science & Tech | 132 | 24 | 9 | 0 | 0 | 1 | 0 | 8 | 4 | 2 | 2 | 0 |
| Oregon Health Sciences U | 141 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oregon State University | 52 | 147 | 23 | 3 | 6 | 8 | 5 | 1 | 16 | 6 | 9 | 1 |
| Portland State University | 137 | 19 | 3 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 |
| University of Oregon | 75 | 96 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 12 | 11 | 0 |
| Pennsylvania, total | 6 | 1,358 | 413 | 50 | 28 | 105 | 78 | 152 | 188 | 88 | 100 | 0 |
| Bryn Mawr College | 145 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 |
| Carnegie Mellon University | 48 | 157 | 81 | 8 | 8 | 31 | 12 | 22 | 21 | 16 | 5 | 0 |
| Drexel University | 102 | 56 | 30 | 2 | 3 | 10 | 7 | 8 | 6 | 4 | 2 | 0 |
| Duquesne University | 150 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| Indiana University Pennsylvania | 151 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lehigh University | 81 | 86 | 48 | 11 | 6 | 10 | 8 | 13 | 17 | 12 | 5 | 0 |
| Medical Col PA, the | 150 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Medical Col PA & Hahnemann U | 143 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pennsylvania State U | 13 | 401 | 160 | 13 | 7 | 31 | 35 | 74 | 55 | 17 | 38 | 0 |
| Philadelphia Col Pharmacy & Sci | 155 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Temple University | 65 | 115 | 4 | 0 | 0 | 4 | 0 | 0 | 11 | 5 | 6 | 0 |
| Thomas Jefferson University | 134 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Pennsylvania | 17 | 318 | 53 | 8 | 2 | 9 | 7 | 27 | 46 | 27 | 19 | 0 |
| University of Pittsburgh | 48 | 157 | 37 | 8 | 2 | 10 | 9 | 8 | 26 | 5 | 21 | 0 |
| Villanova University | 152 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| Westminster Theological Seminary | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Widener U Pennsylvania Campus | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rhode Island, total | 34 | 178 | 34 | 5 | 0 | 15 | 10 | 4 | 27 | 10 | 15 | 2 |
| Brown University | 70 | 102 | 11 | 0 | 0 | 3 | 4 | 4 | 17 | 7 | 8 | 2 |
| University of Rhode Island | 87 | 76 | 23 | 5 | 0 | 12 | 6 | 0 | 10 | 3 | 7 | 0 |
| South Carolina, total | 32 | 199 | 40 | 9 | 6 | 8 | 4 | 13 | 34 | 6 | 28 | 0 |
| Clemson University | 80 | 87 | 38 | 8 | 6 | 7 | 4 | 13 | 12 | 5 | 7 | 0 |
| Medical U South Carolina | 139 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| South Carolina State University | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U of South Carolina at Columbia | 76 | 95 | 2 | 1 | 0 | 1 | 0 | 0 | 22 | 1 | 21 | 0 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 1995

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]



| State and institution | Earth, atmos, ocean | Mathematics | Computer sciences | Biological & agricultural sciences | | | Psychology | Social sciences | Non-S&E, total | Grand total, all fields |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Biological | Agricultural | | | | |
| North Dakota, total | 0 | 1 | 4 | 22 | 15 | 7 | 14 | 0 | 30 | 83 |
| North Dakota State University | 0 | 1 | 4 | 11 | 4 | 7 | 0 | 0 | 1 | 24 |
| University of North Dakota | 0 | 0 | 0 | 11 | 11 | 0 | 14 | 0 | 29 | 59 |
| Ohio, total | 20 | 31 | 32 | 241 | 205 | 36 | 136 | 130 | 726 | 1,791 |
| Air Force Institute Technology | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| Bowling Green State University | 0 | 2 | 0 | 7 | 7 | 0 | 17 | 15 | 33 | 74 |
| Case Western Reserve University | 1 | 1 | 3 | 29 | 29 | 0 | 6 | 6 | 37 | 166 |
| Cleveland State University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 20 | 30 |
| Hebrew Union Col-Jewish Inst Relig | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 |
| Kent State University | 2 | 4 | 7 | 12 | 12 | 0 | 27 | 8 | 97 | 170 |
| Medical College of Ohio | 0 | 0 | 0 | 12 | 12 | 0 | 0 | 0 | 0 | 13 |
| Miami University Oxford Campus | 1 | 0 | 0 | 4 | 4 | 0 | 7 | 1 | 23 | 43 |
| Ohio State University | 13 | 14 | 21 | 113 | 77 | 36 | 28 | 72 | 263 | 688 |
| Ohio University | 0 | 2 | 0 | 7 | 7 | 0 | 11 | 0 | 79 | 116 |
| University of Akron | 0 | 0 | 0 | 3 | 3 | 0 | 13 | 10 | 24 | 109 |
| University of Cincinnati | 3 | 4 | 0 | 41 | 41 | 0 | 20 | 16 | 104 | 263 |
| University of Dayton | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 9 | 29 |
| University of Toledo | 0 | 1 | 0 | 3 | 3 | 0 | 7 | 0 | 34 | 64 |
| Wright State University | 0 | 0 | 1 | 8 | 8 | 0 | 0 | 0 | 0 | 9 |
| Oklahoma, total | 13 | 3 | 5 | 46 | 34 | 12 | 36 | 24 | 157 | 384 |
| Oklahoma State University | 6 | 2 | 1 | 21 | 9 | 12 | 14 | 14 | 70 | 162 |
| University of Oklahoma Norman | 7 | 1 | 3 | 25 | 25 | 0 | 14 | 10 | 79 | 191 |
| University of Tulsa | 0 | 0 | 1 | 0 | 0 | 0 | 8 | 0 | 8 | 31 |
| Oregon, total | 17 | 21 | 11 | 104 | 72 | 32 | 26 | 44 | 150 | 451 |
| Oregon Grad Inst Science & Tech | 3 | 0 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 24 |
| Oregon Health Sciences U | 0 | 0 | 0 | 13 | 13 | 0 | 2 | 0 | 5 | 20 |
| Oregon State University | 9 | 10 | 6 | 73 | 41 | 32 | 5 | 5 | 39 | 186 |
| Portland State University | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 13 | 11 | 30 |
| University of Oregon | 3 | 10 | 1 | 14 | 14 | 0 | 19 | 26 | 95 | 191 |
| Pennsylvania, total | 11 | 59 | 50 | 273 | 253 | 20 | 142 | 222 | 867 | 2,225 |
| Bryn Mawr College | 0 | 0 | 0 | 1 | 1 | 0 | 4 | 4 | 10 | 21 |
| Carnegie Mellon University | 0 | 12 | 17 | 9 | 9 | 0 | 7 | 10 | 21 | 178 |
| Drexel University | 0 | 1 | 4 | 9 | 9 | 0 | 5 | 1 | 6 | 62 |
| Duquesne University | 0 | 0 | 0 | 1 | 1 | 0 | 3 | 0 | 18 | 24 |
| Indiana University Pennsylvania | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 26 | 31 |
| Lehigh University | 3 | 4 | 2 | 9 | 9 | 0 | 2 | 1 | 24 | 110 |
| Medical Col PA, the | 0 | 0 | 0 | 6 | 6 | 0 | 0 | 0 | 1 | 7 |
| Medical Col PA & Hahnemann U | 0 | 0 | 0 | 5 | 5 | 0 | 8 | 0 | 0 | 13 |
| Pennsylvania State U | 5 | 15 | 9 | 86 | 66 | 20 | 33 | 38 | 184 | 585 |
| Philadelphia Col Pharmacy & Sci | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 6 | 7 |
| Temple University | 0 | 8 | 2 | 22 | 22 | 0 | 45 | 23 | 205 | 320 |
| Thomas Jefferson University | 0 | 0 | 0 | 22 | 22 | 0 | 0 | 0 | 0 | 22 |
| University of Pennsylvania | 0 | 11 | 13 | 63 | 63 | 0 | 19 | 113 | 178 | 496 |
| University of Pittsburgh | 3 | 8 | 3 | 37 | 37 | 0 | 16 | 27 | 165 | 322 |
| Villanova University | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 4 |
| Westminster Theological Seminary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 |
| Widener U Pennsylvania Campus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 15 |
| Rhode Island, total | 15 | 9 | 9 | 38 | 37 | 1 | 15 | 31 | 68 | 246 |
| Brown University | 4 | 8 | 9 | 18 | 18 | 0 | 5 | 30 | 37 | 139 |
| University of Rhode Island | 11 | 1 | 0 | 20 | 19 | 1 | 10 | 1 | 31 | 107 |
| South Carolina, total | 9 | 16 | 5 | 64 | 57 | 7 | 15 | 16 | 171 | 370 |
| Clemson University | 1 | 6 | 3 | 27 | 20 | 7 | 0 | 0 | 12 | 99 |
| Medical U South Carolina | 0 | 0 | 0 | 17 | 17 | 0 | 0 | 0 | 3 | 20 |
| South Carolina State University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 14 |
| U of South Carolina at Columbia | 8 | 10 | 2 | 20 | 20 | 0 | 15 | 16 | 142 | 237 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 1995

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]



| State and institution | S&E rank | Total S&E | Engineering | | | | | | Physical sciences | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Total | Chemical | Civil | Electrical | Mechanical | Other engineering | Total | Physics & astronomy | Chemistry | Other physical sciences |
| South Dakota, total | 52 | 17 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| South Dakota Sch of Mines & Tech | 153 | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| South Dakota State University | 149 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of South Dakota | 149 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee, total | 24 | 336 | 70 | 14 | 8 | 12 | 11 | 25 | 41 | 18 | 23 | 0 |
| East Tennessee State University | 149 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Geo Peabody Col Teachers | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Meharry Medical College | 150 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mid-America Baptist Theol Sem | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Middle Tennessee State U | 153 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 |
| Tennessee State University | 155 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee Technological U | 148 | 8 | 8 | 0 | 2 | 1 | 3 | 2 | 0 | 0 | 0 | 0 |
| University of Memphis | 120 | 38 | 7 | 0 | 0 | 2 | 3 | 2 | 2 | 0 | 2 | 0 |
| University Tennessee Knoxville | 47 | 159 | 37 | 12 | 3 | 3 | 3 | 16 | 18 | 3 | 15 | 0 |
| University Tennessee Memphis | 139 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Vanderbilt University | 74 | 97 | 18 | 2 | 3 | 6 | 2 | 5 | 18 | 14 | 4 | 0 |
| Texas, total | 3 | 1,708 | 466 | 77 | 62 | 139 | 78 | 110 | 239 | 114 | 125 | 0 |
| Baylor College of Medicine | 113 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Baylor University | 146 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 1 | 6 | 0 |
| Dallas Theological Seminary | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| East Texas State University | 155 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lamar University-Beaumont | 150 | 6 | 6 | 2 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 |
| Rice University | 69 | 106 | 27 | 10 | 2 | 4 | 5 | 6 | 24 | 17 | 7 | 0 |
| Sam Houston State University | 149 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Southern Methodist University | 103 | 55 | 25 | 0 | 0 | 15 | 6 | 4 | 0 | 0 | 0 | 0 |
| Southwestern Baptist Theol Sem | 154 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| St Mary's University | 152 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Stephen F Austin State U | 155 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas A&M University | 10 | 432 | 125 | 23 | 18 | 31 | 21 | 32 | 52 | 15 | 37 | 0 |
| Texas Christian University | 145 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 3 | 0 |
| Texas Southern University | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas Tech University | 82 | 85 | 17 | 1 | 2 | 9 | 2 | 3 | 12 | 3 | 9 | 0 |
| Texas Woman's University | 125 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Dallas | 155 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Houston | 64 | 121 | 35 | 10 | 3 | 6 | 7 | 9 | 17 | 5 | 12 | 0 |
| U North Tx | 96 | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 6 | 5 | 0 |
| U North Tx Hlth Sci Ctr Ft Worth | 151 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U Texas at Arlington | 96 | 65 | 45 | 0 | 4 | 15 | 14 | 12 | 9 | 2 | 7 | 0 |
| U Texas at Austin | 7 | 458 | 174 | 31 | 32 | 48 | 23 | 40 | 84 | 48 | 36 | 0 |
| U Texas at Dallas | 106 | 52 | 8 | 0 | 0 | 8 | 0 | 0 | 15 | 12 | 3 | 0 |
| U Texas at El Paso | 150 | 6 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| U Texas Hlth Sci Ctr Houston | 111 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| U Texas Hlth Sci Ctr San Antonio | 131 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 |
| U Texas Med Branch Galveston | 129 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| U Texas SW Med Ctr Dallas | 118 | 40 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Utah, total | 28 | 279 | 83 | 12 | 17 | 11 | 13 | 30 | 48 | 13 | 35 | 0 |
| Brigham Young University | 94 | 68 | 17 | 6 | 6 | 2 | 3 | 0 | 9 | 4 | 5 | 0 |
| University of Utah | 50 | 154 | 47 | 6 | 4 | 3 | 9 | 25 | 30 | 5 | 25 | 0 |
| Utah State University | 101 | 57 | 19 | 0 | 7 | 6 | 1 | 5 | 9 | 4 | 5 | 0 |
| Vermont, total | 48 | 44 | 3 | 0 | 0 | 3 | 0 | 0 | 7 | 0 | 7 | 0 |
| Middlebury College | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Vermont | 114 | 44 | 3 | 0 | 0 | 3 | 0 | 0 | 7 | 0 | 7 | 0 |
| Virginia, total | 12 | 663 | 183 | 11 | 18 | 48 | 36 | 70 | 72 | 32 | 40 | 0 |
| College of William and Mary | 128 | 28 | 2 | 1 | 0 | 0 | 0 | 1 | 8 | 7 | 1 | 0 |
| George Mason University | 83 | 84 | 11 | 0 | 0 | 10 | 0 | 1 | 0 | 0 | 0 | 0 |
| Old Dominion University | 114 | 44 | 18 | 0 | 2 | 1 | 9 | 6 | 5 | 5 | 0 | 0 |
| Presbyterian Schl Christ Educ | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Regent University | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Union Theological Sem Virginia | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 1995

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]



| State and institution | Earth, atmos, ocean | Mathematics | Computer sciences | Biological & agricultural sciences | | | Psychology | Social sciences | Non-S&E, total | Grand total, all fields |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Biological | Agricultural | | | | |
| South Dakota, total | 2 | 0 | 0 | 7 | 4 | 3 | 4 | 3 | 41 | 58 |
| South Dakota Sch of Mines & Tech | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| South Dakota State University | 0 | 0 | 0 | 4 | 1 | 3 | 0 | 3 | 0 | 7 |
| University of South Dakota | 0 | 0 | 0 | 3 | 3 | 0 | 4 | 0 | 41 | 48 |
| Tennessee, total | 5 | 10 | 9 | 94 | 85 | 9 | 61 | 46 | 301 | 637 |
| East Tennessee State University | 0 | 0 | 0 | 7 | 7 | 0 | 0 | 0 | 20 | 27 |
| Geo Peabody Col Teachers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43 | 43 |
| Meharry Medical College | 0 | 0 | 0 | 6 | 6 | 0 | 0 | 0 | 0 | 6 |
| Mid-America Baptist Theol Sem | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| Middle Tennessee State U | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 12 | 15 |
| Tennessee State University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 28 | 29 |
| Tennessee Technological U | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| University of Memphis | 0 | 3 | 1 | 2 | 2 | 0 | 22 | 1 | 60 | 98 |
| University Tennessee Knoxville | 5 | 3 | 3 | 37 | 28 | 9 | 25 | 31 | 95 | 254 |
| University Tennessee Memphis | 0 | 0 | 0 | 16 | 16 | 0 | 0 | 0 | 1 | 18 |
| Vanderbilt University | 0 | 4 | 5 | 26 | 26 | 0 | 13 | 13 | 38 | 135 |
| Texas, total | 72 | 65 | 78 | 435 | 368 | 67 | 189 | 164 | 1,009 | 2,717 |
| Baylor College of Medicine | 0 | 0 | 0 | 45 | 45 | 0 | 0 | 0 | 0 | 45 |
| Baylor University | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 28 | 38 |
| Dallas Theological Seminary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 10 |
| East Texas State University | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 47 | 48 |
| Lamar University-Beaumont | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Rice University | 8 | 14 | 10 | 9 | 9 | 0 | 5 | 9 | 18 | 124 |
| Sam Houston State University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 7 |
| Southern Methodist University | 5 | 7 | 6 | 1 | 1 | 0 | 3 | 8 | 0 | 55 |
| Southwestern Baptist Theol Sem | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 77 | 79 |
| St Mary's University | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 5 |
| Stephen F Austin State U | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| Texas A&M University | 23 | 14 | 19 | 138 | 83 | 55 | 20 | 41 | 132 | 564 |
| Texas Christian University | 0 | 0 | 0 | 1 | 1 | 0 | 5 | 0 | 7 | 18 |
| Texas Southern University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 15 |
| Texas Tech University | 4 | 7 | 2 | 16 | 6 | 10 | 16 | 11 | 57 | 142 |
| Texas Woman's University | 0 | 0 | 0 | 9 | 8 | 1 | 20 | 2 | 57 | 88 |
| University of Dallas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 4 |
| University of Houston | 7 | 3 | 6 | 17 | 17 | 0 | 29 | 7 | 87 | 208 |
| U North TX | 0 | 4 | 10 | 6 | 6 | 0 | 29 | 5 | 123 | 188 |
| U North TX Hlth Sci Ctr Ft Worth | 0 | 0 | 0 | 5 | 5 | 0 | 0 | 0 | 0 | 5 |
| U Texas at Arlington | 0 | 1 | 5 | 0 | 0 | 0 | 3 | 2 | 29 | 94 |
| U Texas at Austin | 14 | 10 | 20 | 52 | 52 | 0 | 39 | 65 | 266 | 724 |
| U Texas at Dallas | 6 | 3 | 0 | 9 | 9 | 0 | 5 | 6 | 19 | 71 |
| U Texas at El Paso | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| U Texas Hlth Sci Ctr Houston | 1 | 0 | 0 | 45 | 45 | 0 | 0 | 0 | 27 | 74 |
| U Texas Hlth Sci Ctr San Antonio | 0 | 0 | 0 | 23 | 23 | 0 | 0 | 0 | 0 | 25 |
| U Texas Med Branch Galveston | 0 | 0 | 0 | 27 | 27 | 0 | 0 | 0 | 6 | 33 |
| U Texas SW Med Ctr Dallas | 0 | 0 | 0 | 31 | 31 | 0 | 7 | 0 | 0 | 40 |
| Utah, total | 7 | 10 | 10 | 44 | 34 | 10 | 52 | 25 | 88 | 367 |
| Brigham Young University | 0 | 3 | 3 | 2 | 2 | 0 | 31 | 3 | 26 | 94 |
| University of Utah | 5 | 6 | 7 | 26 | 26 | 0 | 12 | 21 | 55 | 209 |
| Utah State University | 2 | 1 | 0 | 16 | 6 | 10 | 9 | 1 | 7 | 64 |
| Vermont, total | 0 | 0 | 0 | 20 | 19 | 1 | 14 | 0 | 10 | 54 |
| Middlebury College | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| University of Vermont | 0 | 0 | 0 | 20 | 19 | 1 | 14 | 0 | 9 | 53 |
| Virginia, total | 23 | 38 | 38 | 142 | 116 | 26 | 82 | 85 | 342 | 1,005 |
| College of William and Mary | 11 | 0 | 3 | 3 | 3 | 0 | 0 | 1 | 13 | 41 |
| George Mason University | 3 | 4 | 23 | 8 | 8 | 0 | 14 | 21 | 31 | 115 |
| Old Dominion University | 3 | 6 | 1 | 6 | 6 | 0 | 3 | 2 | 15 | 59 |
| Presbyterian Schl Christ Educ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 |
| Regent University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 |
| Union Theological Sem Virginia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 |

See explanatory information, if any, and SOURCE at end of table.

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 1995

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]



| State and institution | S&E rank | Total S&E | Engineering | | | | | | Physical sciences | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Total | Chemical | Civil | Electrical | Mechanical | Other engineering | Total | Physics & astronomy | Chemistry | Other physical sciences |
| Virginia, continued | | | | | | | | | | | | |
| University of Virginia | 37 | 185 | 47 | 3 | 4 | 12 | 6 | 22 | 30 | 16 | 14 | 0 |
| Virginia Commonwealth University | 88 | 75 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 9 | 0 |
| Virginia Polytechnic Inst & St U | 29 | 247 | 105 | 7 | 12 | 25 | 21 | 40 | 20 | 4 | 16 | 0 |
| Washington, total | 19 | 466 | 102 | 14 | 11 | 39 | 13 | 25 | 52 | 23 | 29 | 0 |
| Gonzaga University | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Seattle University | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of Washington | 15 | 332 | 80 | 13 | 8 | 33 | 7 | 19 | 40 | 19 | 21 | 0 |
| Washington State University | 58 | 134 | 22 | 1 | 3 | 6 | 6 | 6 | 12 | 4 | 8 | 0 |
| West Virginia, total | 41 | 78 | 27 | 2 | 4 | 3 | 12 | 6 | 12 | 4 | 8 | 0 |
| Marshall University | 153 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West Virginia University | 88 | 75 | 27 | 2 | 4 | 3 | 12 | 6 | 12 | 4 | 8 | 0 |
| Wisconsin, total | 14 | 612 | 127 | 12 | 10 | 39 | 21 | 45 | 101 | 43 | 58 | 0 |
| Marquette University | 133 | 23 | 12 | 0 | 0 | 5 | 2 | 5 | 4 | 0 | 4 | 0 |
| Medical College of Wisconsin | 141 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| U of Wisconsin-Madison | 2 | 531 | 111 | 12 | 10 | 31 | 19 | 39 | 87 | 39 | 48 | 0 |
| U of Wisconsin-Milwaukee | 115 | 43 | 4 | 0 | 0 | 3 | 0 | 1 | 9 | 3 | 6 | 0 |
| Wyoming, total | 46 | 50 | 11 | 4 | 1 | 2 | 4 | 0 | 10 | 5 | 5 | 0 |
| University of Wyoming | 108 | 50 | 11 | 4 | 1 | 2 | 4 | 0 | 10 | 5 | 5 | 0 |
| Puerto Rico, total | 49 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | 4 | 0 |
| Ctr Adv Studies PR & Caribbean | 142 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Inter American U PR Metropolitan | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| University of PR Rio Piedras | 137 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | 4 | 0 |

See explanatory information, if any, and SOURCE at end of table

## Table 6. Institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 1995

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]



| State and institution | Earth, atmos, ocean | Mathematics | Computer sciences | Biological & agricultural sciences | | | Psychology | Social sciences | Non-S&E, total | Grand total, all fields |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Biological | Agricultural | | | | |
| Virginia, continued | | | | | | | | | | |
| University of Virginia | 4 | 13 | 6 | 38 | 38 | 0 | 21 | 26 | 124 | 309 |
| Virginia Commonwealth University | 0 | 0 | 0 | 33 | 33 | 0 | 23 | 10 | 33 | 108 |
| Virginia Polytechnic Inst & St U | 2 | 15 | 5 | 54 | 28 | 26 | 21 | 25 | 113 | 360 |
| Washington, total | 30 | 24 | 18 | 141 | 100 | 41 | 33 | 66 | 221 | 687 |
| Gonzaga University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 |
| Seattle University | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 20 |
| University of Washington | 28 | 21 | 14 | 91 | 68 | 23 | 18 | 40 | 149 | 481 |
| Washington State University | 2 | 3 | 4 | 50 | 32 | 18 | 15 | 26 | 36 | 170 |
| West Virginia, total | 0 | 3 | 1 | 21 | 16 | 5 | 10 | 4 | 80 | 158 |
| Marshall University | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 3 |
| West Virginia University | 0 | 3 | 1 | 18 | 13 | 5 | 10 | 4 | 80 | 155 |
| Wisconsin, total | 17 | 45 | 15 | 174 | 134 | 40 | 41 | 92 | 294 | 906 |
| Marquette University | 0 | 3 | 0 | 2 | 2 | 0 | 2 | 0 | 34 | 57 |
| Medical College of Wisconsin | 0 | 0 | 0 | 14 | 14 | 0 | 0 | 0 | 0 | 15 |
| U of Wisconsin-Madison | 16 | 36 | 15 | 152 | 112 | 40 | 31 | 83 | 226 | 757 |
| U of Wisconsin-Milwaukee | 1 | 6 | 0 | 6 | 6 | 0 | 8 | 9 | 34 | 77 |
| Wyoming, total | 4 | 2 | 0 | 17 | 10 | 7 | 6 | 0 | 13 | 63 |
| University of Wyoming | 4 | 2 | 0 | 17 | 10 | 7 | 6 | 0 | 13 | 63 |
| Puerto Rico, total | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 0 | 17 | 50 |
| Ctr Adv Studies PR & Caribbean | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 14 |
| Inter American U PR Metropolitan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| University of PR Rio Piedras | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 11 | 30 |

KEY: . = Not applicable

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

## Table 7. Postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 1995



| Field of study | Total | Definite plans | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Total with definite plans | In the United States | | | | | Abroad | Location unknown |
| | | | Total in U.S. | Postdoc study | Academic employment | Industry employment | Other | | |
| | All recipients | | | | | | | | |
| Science and engineering, total | 26,515 | 15,552 | 13,390 | 6,050 | 3,003 | 2,712 | 1,625 | 2,107 | 55 |
| Engineering, total | 6,007 | 3,066 | 2,533 | 650 | 360 | 1,244 | 279 | 514 | 19 |
| Aeronautical/astronautical | 251 | 132 | 107 | 28 | 10 | 41 | 28 | 24 | 1 |
| Chemical | 708 | 412 | 342 | 101 | 29 | 188 | 24 | 68 | 2 |
| Civil | 656 | 311 | 231 | 57 | 66 | 76 | 32 | 78 | 2 |
| Electrical | 1,731 | 902 | 778 | 124 | 99 | 486 | 69 | 120 | 4 |
| Industrial | 283 | 138 | 96 | 6 | 42 | 41 | 7 | 40 | 2 |
| Materials/metallurgical | 588 | 308 | 267 | 116 | 14 | 111 | 26 | 39 | 2 |
| Mechanical | 1,024 | 462 | 386 | 101 | 52 | 200 | 33 | 71 | 5 |
| Other engineering | 766 | 401 | 326 | 117 | 48 | 101 | 60 | 74 | 1 |
| Sciences, total | 20,508 | 12,486 | 10,857 | 5,400 | 2,643 | 1,468 | 1,346 | 1,593 | 36 |
| Physical sciences, total | 3,840 | 2,290 | 2,006 | 1,320 | 183 | 399 | 104 | 272 | 12 |
| Astronomy | 173 | 122 | 103 | 77 | 17 | 4 | 5 | 19 | 0 |
| Chemistry | 2,161 | 1,324 | 1,219 | 794 | 101 | 274 | 50 | 101 | 4 |
| Physics | 1,479 | 834 | 677 | 443 | 65 | 120 | 49 | 149 | 8 |
| Other physical sciences | 27 | 10 | 7 | 6 | 0 | 1 | 0 | 3 | 0 |
| Earth, atmospheric, and ocean sciences | 778 | 440 | 359 | 172 | 66 | 52 | 69 | 81 | 0 |
| Mathematics | 1,190 | 656 | 542 | 146 | 281 | 87 | 28 | 110 | 4 |
| Computer sciences | 998 | 619 | 526 | 88 | 178 | 221 | 39 | 91 | 2 |
| Biological sciences | 5,370 | 3,623 | 3,298 | 2,698 | 290 | 156 | 154 | 315 | 10 |
| Agricultural sciences | 1,036 | 577 | 395 | 158 | 89 | 96 | 52 | 179 | 3 |
| Psychology | 3,419 | 2,019 | 1,952 | 608 | 495 | 298 | 551 | 66 | 1 |
| Social sciences | 3,877 | 2,262 | 1,779 | 210 | 1,061 | 159 | 349 | 479 | 4 |
| Non-S&E, total | 15,095 | 9,302 | 8,416 | 457 | 4,995 | 581 | 2,383 | 874 | 12 |
| Grand total, all fields | 41,610 | 24,854 | 21,806 | 6,507 | 7,998 | 3,293 | 4,008 | 2,981 | 67 |
| | U.S. citizens | | | | | | | | |
| Science and engineering, total | 15,460 | 10,136 | 9,687 | 3,967 | 2,511 | 1,761 | 1,448 | 438 | 11 |
| Engineering, total | 2,382 | 1,494 | 1,451 | 286 | 275 | 652 | 238 | 43 | 0 |
| Aeronautical/astronautical | 140 | 77 | 76 | 14 | 8 | 27 | 27 | 1 | 0 |
| Chemical | 291 | 200 | 193 | 37 | 24 | 113 | 19 | 7 | 0 |
| Civil | 206 | 138 | 134 | 19 | 52 | 39 | 24 | 4 | 0 |
| Electrical | 683 | 426 | 415 | 64 | 72 | 221 | 58 | 11 | 0 |
| Industrial | 108 | 58 | 56 | 1 | 31 | 17 | 7 | 2 | 0 |
| Materials/metallurgical | 238 | 155 | 149 | 48 | 9 | 68 | 24 | 6 | 0 |
| Mechanical | 379 | 228 | 225 | 37 | 42 | 116 | 30 | 3 | 0 |
| Other engineering | 337 | 212 | 203 | 66 | 37 | 51 | 49 | 9 | 0 |
| Sciences, total | 13,078 | 8,642 | 8,236 | 3,681 | 2,236 | 1,109 | 1,210 | 395 | 11 |
| Physical sciences, total | 2,136 | 1,444 | 1,347 | 807 | 156 | 290 | 94 | 93 | 4 |
| Astronomy | 120 | 88 | 78 | 56 | 14 | 4 | 4 | 10 | 0 |
| Chemistry | 1,237 | 865 | 829 | 491 | 92 | 202 | 44 | 35 | 1 |
| Physics | 764 | 483 | 433 | 254 | 50 | 83 | 46 | 47 | 3 |
| Other physical sciences | 15 | 8 | 7 | 6 | 0 | 1 | 0 | 1 | 0 |
| Earth, atmospheric, and ocean sciences | 478 | 294 | 271 | 110 | 59 | 39 | 63 | 23 | 0 |
| Mathematics | 554 | 365 | 348 | 80 | 191 | 50 | 27 | 16 | 1 |
| Computer sciences | 484 | 311 | 294 | 35 | 126 | 103 | 30 | 16 | 1 |
| Biological sciences | 3,489 | 2,510 | 2,391 | 1,853 | 268 | 131 | 139 | 116 | 3 |
| Agricultural sciences | 492 | 300 | 283 | 79 | 77 | 81 | 46 | 17 | 0 |
| Psychology | 3,068 | 1,883 | 1,860 | 562 | 474 | 290 | 534 | 22 | 1 |
| Social sciences | 2,377 | 1,535 | 1,442 | 155 | 885 | 125 | 277 | 92 | 1 |
| Non-S&E, total | 12,143 | 7,929 | 7,735 | 363 | 4,526 | 520 | 2,326 | 190 | 4 |
| Grand total, all fields | 27,603 | 18,065 | 17,422 | 4,330 | 7,037 | 2,281 | 3,774 | 628 | 15 |

See explanatory information, if any, and SOURCE at end of table.

## Table 7. Postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 1995



| Field of study | Total | Definite plans | | | | | | | | Location unknown |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Total with definite plans | In the United States | | | | | Abroad | |
| | | | Total in U.S. | Postdoc study | Academic employment | Industry employment | Other | | |
| | Non-U.S. citizens with permanent visas | | | | | | | | |
| Science and engineering, total | 3,501 | 1,705 | 1,574 | 883 | 184 | 419 | 88 | 116 | 15 |
| Engineering, total | 954 | 410 | 380 | 88 | 37 | 237 | 18 | 25 | 5 |
| Aeronautical/astronautical | 13 | 6 | 6 | 3 | 0 | 2 | 1 | 0 | 0 |
| Chemical | 90 | 42 | 40 | 13 | 1 | 24 | 2 | 2 | 0 |
| Civil | 103 | 35 | 32 | 7 | 5 | 16 | 4 | 2 | 1 |
| Electrical | 288 | 142 | 136 | 11 | 15 | 105 | 5 | 6 | 0 |
| Industrial | 41 | 21 | 15 | 1 | 5 | 9 | 0 | 5 | 1 |
| Materials/metallurgical | 113 | 46 | 42 | 23 | 2 | 16 | 1 | 3 | 1 |
| Mechanical | 179 | 65 | 59 | 14 | 4 | 39 | 2 | 4 | 2 |
| Other engineering | 127 | 53 | 50 | 16 | 5 | 26 | 3 | 3 | 0 |
| Sciences, total | 2,547 | 1,295 | 1,194 | 795 | 147 | 182 | 70 | 91 | 10 |
| Physical sciences, total | 704 | 323 | 298 | 214 | 10 | 66 | 8 | 20 | 5 |
| Astronomy | 21 | 17 | 15 | 13 | 1 | 0 | 1 | 2 | 0 |
| Chemistry | 386 | 173 | 165 | 117 | 2 | 42 | 4 | 7 | 1 |
| Physics | 295 | 133 | 118 | 84 | 7 | 24 | 3 | 11 | 4 |
| Other physical sciences | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 115 | 49 | 45 | 28 | 4 | 8 | 5 | 4 | 0 |
| Mathematics | 217 | 81 | 77 | 18 | 30 | 28 | 1 | 4 | 0 |
| Computer sciences | 133 | 82 | 79 | 10 | 17 | 44 | 8 | 3 | 0 |
| Biological sciences | 832 | 513 | 493 | 460 | 12 | 12 | 9 | 15 | 5 |
| Agricultural sciences | 106 | 47 | 35 | 25 | 3 | 4 | 3 | 12 | 0 |
| Psychology | 101 | 49 | 46 | 20 | 11 | 4 | 11 | 3 | 0 |
| Social sciences | 339 | 151 | 121 | 20 | 60 | 16 | 25 | 30 | 0 |
| Non-S&E, total | 806 | 368 | 310 | 36 | 207 | 27 | 40 | 56 | 2 |
| Grand total, all fields | 4,307 | 2,073 | 1,884 | 919 | 391 | 446 | 128 | 172 | 17 |
| | Non-U.S. citizens with temporary visas | | | | | | | | |
| Science and engineering, total | 6,992 | 3,698 | 2,122 | 1,197 | 307 | 530 | 88 | 1,547 | 29 |
| Engineering, total | 2,523 | 1,159 | 699 | 274 | 48 | 354 | 23 | 446 | 14 |
| Aeronautical/astronautical | 94 | 48 | 24 | 11 | 2 | 11 | 0 | 23 | 1 |
| Chemical | 318 | 170 | 109 | 51 | 4 | 51 | 3 | 59 | 2 |
| Civil | 337 | 138 | 65 | 31 | 9 | 21 | 4 | 72 | 1 |
| Electrical | 712 | 334 | 227 | 49 | 12 | 160 | 6 | 103 | 4 |
| Industrial | 130 | 59 | 25 | 4 | 6 | 15 | 0 | 33 | 1 |
| Materials/metallurgical | 223 | 106 | 75 | 44 | 3 | 27 | 1 | 30 | 1 |
| Mechanical | 437 | 168 | 101 | 49 | 6 | 45 | 1 | 64 | 3 |
| Other engineering | 272 | 136 | 73 | 35 | 6 | 24 | 8 | 62 | 1 |
| Sciences, total | 4,469 | 2,539 | 1,423 | 923 | 259 | 176 | 65 | 1,101 | 15 |
| Physical sciences, total | 930 | 523 | 361 | 299 | 17 | 43 | 2 | 159 | 3 |
| Astronomy | 28 | 17 | 10 | 8 | 2 | 0 | 0 | 7 | 0 |
| Chemistry | 493 | 286 | 225 | 186 | 7 | 30 | 2 | 59 | 2 |
| Physics | 399 | 218 | 126 | 105 | 8 | 13 | 0 | 91 | 1 |
| Other physical sciences | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| Earth, atmospheric, and ocean sciences | 172 | 97 | 43 | 34 | 3 | 5 | 1 | 54 | 0 |
| Mathematics | 382 | 208 | 116 | 48 | 59 | 9 | 0 | 89 | 3 |
| Computer sciences | 365 | 225 | 152 | 43 | 35 | 73 | 1 | 72 | 1 |
| Biological sciences | 971 | 598 | 413 | 384 | 10 | 13 | 6 | 183 | 2 |
| Agricultural sciences | 429 | 230 | 77 | 54 | 9 | 11 | 3 | 150 | 3 |
| Psychology | 162 | 87 | 46 | 26 | 10 | 4 | 6 | 41 | 0 |
| Social sciences | 1,058 | 571 | 215 | 35 | 116 | 18 | 46 | 353 | 3 |
| Non-S&E, total | 1,814 | 1,001 | 369 | 58 | 261 | 33 | 17 | 626 | 6 |
| Grand total, all fields | 8,806 | 4,699 | 2,491 | 1,255 | 568 | 563 | 105 | 2,173 | 35 |

**SOURCE:** National Science Foundation/SRS, Survey of Earned Doctorates

## Table 8. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 1995



| Field of study | Definite plans | In the United States | | | | | Abroad | Location unknown |
|---|---|---|---|---|---|---|---|---|
| | | Total in U.S. | Postdoc study | Academic employment | Industry employment | Other | | |
| | All recipients | | | | | | | |
| Science and engineering, total | 100.0 | 86.1 | 38.9 | 19.3 | 17.4 | 10.4 | 13.5 | 0.4 |
| Engineering, total | 100.0 | 82.6 | 21.2 | 11.7 | 40.6 | 9.1 | 16.8 | .6 |
| Aeronautical/astronautical | 100.0 | 81.1 | 21.2 | 7.6 | 31.1 | 21.2 | 18.2 | .8 |
| Chemical | 100.0 | 83.0 | 24.5 | 7.0 | 45.6 | 5.8 | 16.5 | .5 |
| Civil | 100.0 | 74.3 | 18.3 | 21.2 | 24.4 | 10.3 | 25.1 | .6 |
| Electrical | 100.0 | 86.3 | 13.7 | 11.0 | 53.9 | 7.6 | 13.3 | .4 |
| Industrial | 100.0 | 69.6 | 4.3 | 30.4 | 29.7 | 5.1 | 29.0 | 1.4 |
| Materials/metallurgical | 100.0 | 86.7 | 37.7 | 4.5 | 36.0 | 8.4 | 12.7 | .6 |
| Mechanical | 100.0 | 83.5 | 21.9 | 11.3 | 43.3 | 7.1 | 15.4 | 1.1 |
| Other engineering | 100.0 | 81.3 | 29.2 | 12.0 | 25.2 | 15.0 | 18.5 | .2 |
| Sciences, total | 100.0 | 87.0 | 43.2 | 21.2 | 11.8 | 10.8 | 12.8 | .3 |
| Physical sciences, total | 100.0 | 87.6 | 57.6 | 6.0 | 17.4 | 4.5 | 11.9 | .5 |
| Astronomy | 100.0 | 84.4 | 63.1 | 13.9 | 3.3 | 4.1 | 15.6 | .0 |
| Chemistry | 100.0 | 92.1 | 60.0 | 7.6 | 20.7 | 3.8 | 7.6 | .3 |
| Physics | 100.0 | 81.2 | 53.1 | 7.8 | 14.4 | 5.9 | 17.9 | 1.0 |
| Other physical sciences | 100.0 | 70.0 | 60.0 | 0 | 10.0 | 0 | 30.0 | .0 |
| Earth, atmospheric, and ocean sciences | 100.0 | 81.6 | 39.1 | 15.0 | 11.8 | 15.7 | 18.4 | .0 |
| Mathematics | 100.0 | 82.6 | 22.3 | 42.8 | 13.3 | 4.3 | 16.8 | .6 |
| Computer sciences | 100.0 | 85.0 | 14.2 | 28.8 | 35.7 | 6.3 | 14.7 | .3 |
| Biological sciences | 100.0 | 91.0 | 74.5 | 8.0 | 4.3 | 4.3 | 8.7 | .3 |
| Agricultural sciences | 100.0 | 68.5 | 27.4 | 15.4 | 16.6 | 9.0 | 31.0 | .5 |
| Psychology | 100.0 | 96.7 | 30.1 | 24.5 | 14.8 | 27.3 | 3.3 | .0 |
| Social sciences | 100.0 | 78.6 | 9.3 | 46.9 | 7.0 | 15.4 | 21.2 | .2 |
| Non-S&E, total | 100.0 | 90.5 | 4.9 | 53.7 | 6.2 | 25.6 | 9.4 | .1 |
| Grand total, all fields | 100.0 | 87.7 | 26.2 | 32.2 | 13.2 | 16.1 | 12.0 | .3 |
| | U.S. citizens | | | | | | | |
| Science and engineering, total | 100.0 | 95.6 | 39.1 | 24.8 | 17.4 | 14.3 | 4.3 | 0.1 |
| Engineering, total | 100.0 | 97.1 | 19.1 | 18.4 | 43.6 | 15.9 | 2.9 | .0 |
| Aeronautical/astronautical | 100.0 | 98.7 | 18.2 | 10.4 | 35.1 | 35.1 | 1.3 | .0 |
| Chemical | 100.0 | 96.5 | 18.5 | 12.0 | 56.5 | 9.5 | 3.5 | .0 |
| Civil | 100.0 | 97.1 | 13.8 | 37.7 | 28.3 | 17.4 | 2.9 | .0 |
| Electrical | 100.0 | 97.4 | 15.0 | 16.9 | 51.9 | 13.6 | 2.6 | .0 |
| Industrial | 100.0 | 96.6 | 1.7 | 53.4 | 29.3 | 12.1 | 3.4 | .0 |
| Materials/metallurgical | 100.0 | 96.1 | 31.0 | 5.8 | 43.9 | 15.5 | 3.9 | .0 |
| Mechanical | 100.0 | 98.7 | 16.2 | 18.4 | 50.9 | 13.2 | 1.3 | .0 |
| Other engineering | 100.0 | 95.8 | 31.1 | 17.5 | 24.1 | 23.1 | 4.2 | .0 |
| Sciences, total | 100.0 | 95.3 | 42.6 | 25.9 | 12.8 | 14.0 | 4.6 | .1 |
| Physical sciences, total | 100.0 | 93.3 | 55.9 | 10.8 | 20.1 | 6.5 | 6.4 | .3 |
| Astronomy | 100.0 | 88.6 | 63.6 | 15.9 | 4.5 | 4.5 | 11.4 | .0 |
| Chemistry | 100.0 | 95.8 | 56.8 | 10.6 | 23.4 | 5.1 | 4.0 | .1 |
| Physics | 100.0 | 89.6 | 52.6 | 10.4 | 17.2 | 9.5 | 9.7 | .6 |
| Other physical sciences | 100.0 | 87.5 | 75.0 | 0 | 12.5 | 0 | 12.5 | .0 |
| Earth, atmospheric, and ocean sciences | 100.0 | 92.2 | 37.4 | 20.1 | 13.3 | 21.4 | 7.8 | .0 |
| Mathematics | 100.0 | 95.3 | 21.9 | 52.3 | 13.7 | 7.4 | 4.4 | .3 |
| Computer sciences | 100.0 | 94.5 | 11.3 | 40.5 | 33.1 | 9.6 | 5.1 | .3 |
| Biological sciences | 100.0 | 95.3 | 73.8 | 10.7 | 5.2 | 5.5 | 4.6 | .1 |
| Agricultural sciences | 100.0 | 94.3 | 26.3 | 25.7 | 27.0 | 15.3 | 5.7 | .0 |
| Psychology | 100.0 | 98.8 | 29.8 | 25.2 | 15.4 | 28.4 | 1.2 | .1 |
| Social sciences | 100.0 | 93.9 | 10.1 | 57.7 | 8.1 | 18.0 | 6.0 | .1 |
| Non-S&E, total | 100.0 | 97.6 | 4.6 | 57.1 | 6.6 | 29.3 | 2.4 | .1 |
| Grand total, all fields | 100.0 | 96.4 | 24.0 | 39.0 | 12.6 | 20.9 | 3.5 | .1 |

See explanatory information, if any, and SOURCE at end of table.

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## Table 8. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 1995



| Field of study | Definite plans | In the United States | | | | | Abroad | Location unknown |
|---|---|---|---|---|---|---|---|---|
| | | Total in U.S. | Postdoc study | Academic employment | Industry employment | Other | | |
| | Non-U.S. citizens with permanent visas | | | | | | | |
| Science and engineering, total | 100.0 | 92.3 | 51.8 | 10.8 | 24.6 | 5.2 | 6.8 | 0.9 |
| Engineering, total | 100.0 | 92.7 | 21.5 | 9.0 | 57.8 | 4.4 | 6.1 | 1.2 |
| Aeronautical/astronautical | 100.0 | 100.0 | 50.0 | 0 | 33.3 | 16.7 | 0 | 0 |
| Chemical | 100.0 | 95.2 | 31.0 | 2.4 | 57.1 | 4.8 | 4.8 | 0 |
| Civil | 100.0 | 91.4 | 20.0 | 14.3 | 45.7 | 11.4 | 5.7 | 2.9 |
| Electrical | 100.0 | 95.8 | 7.7 | 10.6 | 73.9 | 3.5 | 4.2 | 0 |
| Industrial | 100.0 | 71.4 | 4.8 | 23.8 | 42.9 | 0 | 23.8 | 4.8 |
| Materials/metallurgical | 100.0 | 91.3 | 50.0 | 4.3 | 34.8 | 2.2 | 6.5 | 2.2 |
| Mechanical | 100.0 | 90.8 | 21.5 | 6.2 | 60.0 | 3.1 | 6.2 | 3.1 |
| Other engineering | 100.0 | 94.3 | 30.2 | 9.4 | 49.1 | 5.7 | 5.7 | 0 |
| Sciences, total | 100.0 | 92.2 | 61.4 | 11.4 | 14.1 | 5.4 | 7.0 | .8 |
| Physical sciences, total | 100.0 | 92.3 | 66.3 | 3.1 | 20.4 | 2.5 | 6.2 | 1.5 |
| Astronomy | 100.0 | 88.2 | 76.5 | 5.9 | 0 | 5.9 | 11.8 | 0 |
| Chemistry | 100.0 | 95.4 | 67.6 | 1.2 | 24.3 | 2.3 | 4.0 | .6 |
| Physics | 100.0 | 88.7 | 63.2 | 5.3 | 18.0 | 2.3 | 8.3 | 3.0 |
| Other physical sciences | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 100.0 | 91.8 | 57.1 | 8.2 | 16.3 | 10.2 | 8.2 | 0 |
| Mathematics | 100.0 | 95.1 | 22.2 | 37.0 | 34.6 | 1.2 | 4.9 | 0 |
| Computer sciences | 100.0 | 96.3 | 12.2 | 20.7 | 53.7 | 9.8 | 3.7 | 0 |
| Biological sciences | 100.0 | 96.1 | 89.7 | 2.3 | 2.3 | 1.8 | 2.9 | 1.0 |
| Agricultural sciences | 100.0 | 74.5 | 53.2 | 6.4 | 8.5 | 6.4 | 25.5 | 0 |
| Psychology | 100.0 | 93.9 | 40.8 | 22.4 | 8.2 | 22.4 | 6.1 | 0 |
| Social sciences | 100.0 | 80.1 | 13.2 | 39.7 | 10.6 | 16.6 | 19.9 | 0 |
| Non-S&E, total | 100.0 | 84.2 | 9.8 | 56.3 | 7.3 | 10.9 | 15.2 | .5 |
| Grand total, all fields | 100.0 | 90.9 | 44.3 | 18.9 | 21.5 | 6.2 | 8.3 | .8 |
| | Non-U.S. citizens with temporary visas | | | | | | | |
| Science and engineering, total | 100.0 | 57.4 | 32.4 | 8.3 | 14.3 | 2.4 | 41.8 | 0.8 |
| Engineering, total | 100.0 | 60.3 | 23.6 | 4.1 | 30.5 | 2.0 | 38.5 | 1.2 |
| Aeronautical/astronautical | 100.0 | 50.0 | 22.9 | 4.2 | 22.9 | 0 | 47.9 | 2.1 |
| Chemical | 100.0 | 64.1 | 30.0 | 2.4 | 30.0 | 1.8 | 34.7 | 1.2 |
| Civil | 100.0 | 47.1 | 22.5 | 6.5 | 15.2 | 2.9 | 52.2 | .7 |
| Electrical | 100.0 | 68.0 | 14.7 | 3.6 | 47.9 | 1.8 | 30.8 | 1.2 |
| Industrial | 100.0 | 42.4 | 6.8 | 10.2 | 25.4 | 0 | 55.9 | 1.7 |
| Materials/metallurgical | 100.0 | 70.8 | 41.5 | 2.8 | 25.5 | 9 | 28.3 | .9 |
| Mechanical | 100.0 | 60.1 | 29.2 | 3.6 | 26.8 | 6 | 38.1 | 1.8 |
| Other engineering | 100.0 | 53.7 | 25.7 | 4.4 | 17.6 | 5.9 | 45.6 | .7 |
| Sciences, total | 100.0 | 56.0 | 36.4 | 10.2 | 6.9 | 2.6 | 43.4 | .6 |
| Physical sciences, total | 100.0 | 69.0 | 57.2 | 3.3 | 8.2 | 4 | 30.4 | .6 |
| Astronomy | 100.0 | 58.8 | 47.1 | 11.8 | 0 | 0 | 41.2 | 0 |
| Chemistry | 100.0 | 78.7 | 65.0 | 2.4 | 10.5 | 7 | 20.6 | .7 |
| Physics | 100.0 | 57.8 | 48.2 | 3.7 | 6.0 | 0 | 41.7 | .5 |
| Other physical sciences | 100.0 | 0 | 0 | 0 | 0 | 0 | 100.0 | 0 |
| Earth, atmospheric, and ocean sciences | 100.0 | 44.3 | 35.1 | 3.1 | 5.2 | 1.0 | 55.7 | 0 |
| Mathematics | 100.0 | 55.8 | 23.1 | 28.4 | 4.3 | 0 | 42.8 | 1.4 |
| Computer sciences | 100.0 | 67.6 | 19.1 | 15.6 | 32.4 | 4 | 32.0 | .4 |
| Biological sciences | 100.0 | 69.1 | 64.2 | 1.7 | 2.2 | 1.0 | 30.6 | .3 |
| Agricultural sciences | 100.0 | 33.5 | 23.5 | 3.9 | 4.8 | 1.3 | 65.2 | 1.3 |
| Psychology | 100.0 | 52.9 | 29.9 | 11.5 | 4.6 | 6.9 | 47.1 | 0 |
| Social sciences | 100.0 | 37.7 | 6.1 | 20.3 | 3.2 | 8.1 | 61.8 | .5 |
| Non-S&E, total | 100.0 | 36.9 | 5.8 | 26.1 | 3.3 | 1.7 | 62.5 | .6 |
| Grand total, all fields | 100.0 | 53.0 | 26.7 | 12.1 | 12.0 | 2.2 | 46.2 | .7 |

**SOURCE:** National Science Foundation/SRS, Survey of Earned Doctorates

## Table 9. Postgraduation plans of science and engineering (S&E) doctorate recipients, by sex and major field: 1995

[U.S. citizens and non-U.S. citizens with permanent visas]



| Field of study | Total | Definite plans | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Total with definite plans | In the United States | | | | Abroad | Location unknown |
| | | | Total in U.S. | Postdoc study | Academic employment | Industry employment | Other | | |
| | All such recipients | | | | | | | | |
| Science and engineering, total | 18,961 | 11,841 | 11,261 | 4,850 | 2,695 | 2,180 | 1,536 | 554 | 26 |
| Engineering, total | 3,336 | 1,904 | 1,831 | 374 | 312 | 889 | 256 | 68 | 5 |
| Aeronautical/astronautical | 153 | 83 | 82 | 17 | 8 | 29 | 28 | 1 | 0 |
| Chemical | 381 | 242 | 233 | 50 | 25 | 137 | 21 | 9 | 0 |
| Civil | 309 | 173 | 166 | 26 | 57 | 55 | 28 | 6 | 1 |
| Electrical | 971 | 568 | 551 | 75 | 87 | 326 | 63 | 17 | 0 |
| Industrial | 149 | 79 | 71 | 2 | 36 | 26 | 7 | 7 | 1 |
| Materials/metallurgical | 351 | 201 | 191 | 71 | 11 | 84 | 25 | 9 | 1 |
| Mechanical | 558 | 293 | 284 | 51 | 46 | 155 | 32 | 7 | 2 |
| Other engineering | 464 | 265 | 253 | 82 | 42 | 77 | 52 | 12 | 0 |
| Sciences, total | 15,625 | 9,937 | 9,430 | 4,476 | 2,383 | 1,291 | 1,280 | 486 | 21 |
| Physical sciences, total | 2,840 | 1,767 | 1,645 | 1,021 | 166 | 356 | 102 | 113 | 9 |
| Astronomy | 141 | 105 | 93 | 69 | 15 | 4 | 5 | 12 | 0 |
| Chemistry | 1,623 | 1,038 | 994 | 608 | 94 | 244 | 48 | 42 | 2 |
| Physics | 1,059 | 616 | 551 | 338 | 57 | 107 | 49 | 58 | 7 |
| Other physical sciences | 17 | 8 | 7 | 6 | 0 | 1 | 0 | 1 | 0 |
| Earth, atmospheric, and ocean sciences | 593 | 343 | 316 | 138 | 63 | 47 | 68 | 27 | 0 |
| Mathematics | 771 | 446 | 425 | 98 | 221 | 78 | 28 | 20 | 1 |
| Computer sciences | 617 | 393 | 373 | 45 | 143 | 147 | 38 | 19 | 1 |
| Biological sciences | 4,321 | 3,023 | 2,884 | 2,313 | 280 | 143 | 148 | 131 | 8 |
| Agricultural sciences | 598 | 347 | 318 | 104 | 80 | 85 | 49 | 29 | 0 |
| Psychology | 3,169 | 1,932 | 1,906 | 582 | 485 | 294 | 545 | 25 | 1 |
| Social sciences | 2,716 | 1,686 | 1,563 | 175 | 945 | 141 | 302 | 122 | 1 |
| Non-S&E, total | 12,949 | 8,297 | 8,045 | 399 | 4,733 | 547 | 2,366 | 246 | 6 |
| Grand total, all fields | 31,910 | 20,138 | 19,306 | 5,249 | 7,428 | 2,727 | 3,902 | 800 | 32 |
| | Women | | | | | | | | |
| Science and engineering, total | 6,892 | 4,335 | 4,182 | 1,859 | 1,155 | 539 | 629 | 146 | 7 |
| Engineering, total | 518 | 296 | 287 | 64 | 75 | 111 | 37 | 8 | 1 |
| Aeronautical/astronautical | 12 | 5 | 5 | 1 | 0 | 0 | 4 | 0 | 0 |
| Chemical | 88 | 62 | 60 | 12 | 8 | 36 | 4 | 2 | 0 |
| Civil | 52 | 31 | 30 | 5 | 19 | 4 | 2 | 1 | 0 |
| Electrical | 120 | 65 | 63 | 8 | 17 | 31 | 7 | 2 | 0 |
| Industrial | 34 | 16 | 15 | 0 | 11 | 3 | 1 | 1 | 0 |
| Materials/metallurgical | 78 | 43 | 42 | 10 | 2 | 24 | 6 | 1 | 0 |
| Mechanical | 48 | 21 | 20 | 7 | 5 | 5 | 3 | 0 | 1 |
| Other engineering | 86 | 53 | 52 | 21 | 13 | 8 | 10 | 1 | 0 |
| Sciences, total | 6,374 | 4,039 | 3,895 | 1,795 | 1,080 | 428 | 592 | 138 | 6 |
| Physical sciences, total | 708 | 438 | 415 | 241 | 71 | 77 | 26 | 21 | 2 |
| Astronomy | 25 | 20 | 18 | 15 | 2 | 1 | 0 | 2 | 0 |
| Chemistry | 537 | 334 | 317 | 184 | 49 | 65 | 19 | 15 | 2 |
| Physics | 143 | 82 | 78 | 41 | 20 | 10 | 7 | 4 | 0 |
| Other physical sciences | 3 | 2 | 2 | 1 | 0 | 1 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 144 | 83 | 79 | 35 | 15 | 10 | 19 | 4 | 0 |
| Mathematics | 183 | 107 | 104 | 15 | 67 | 15 | 7 | 3 | 0 |
| Computer sciences | 143 | 96 | 91 | 11 | 48 | 22 | 10 | 5 | 0 |
| Biological sciences | 1,854 | 1,278 | 1,227 | 1,001 | 114 | 50 | 62 | 47 | 4 |
| Agricultural sciences | 135 | 68 | 65 | 24 | 19 | 9 | 13 | 3 | 0 |
| Psychology | 2,044 | 1,221 | 1,208 | 366 | 314 | 191 | 337 | 13 | 0 |
| Social sciences | 1,163 | 748 | 706 | 102 | 432 | 54 | 118 | 42 | 0 |
| Non-S&E, total | 7,203 | 4,602 | 4,503 | 212 | 2,711 | 261 | 1,319 | 96 | 3 |
| Grand total, all fields | 14,095 | 8,937 | 8,685 | 2,071 | 3,866 | 800 | 1,948 | 242 | 10 |

See explanatory information, if any, and SOURCE at end of table.

## Table 9. Postgraduation plans of science and engineering (S&E) doctorate recipients, by sex and major field: 1995

[U.S. citizens and non-U.S. citizens with permanent visas]



| Field of study | Total | Definite plans | | | | | | | | Location unknown |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Total with definite plans | In the United States | | | | | Abroad | |
| | | | Total in U.S. | Postdoc study | Academic employment | Industry employment | Other | | |
| | Men | | | | | | | | | |
| Science and engineering, total | 12,069 | 7,506 | 7,079 | 2,991 | 1,540 | 1,641 | 907 | 408 | 19 |
| Engineering, total | 2,818 | 1,608 | 1,544 | 310 | 237 | 778 | 219 | 60 | 4 |
| Aeronautical/astronautical | 141 | 78 | 77 | 16 | 8 | 29 | 24 | 1 | 0 |
| Chemical | 293 | 180 | 173 | 38 | 17 | 101 | 17 | 7 | 0 |
| Civil | 257 | 142 | 136 | 21 | 38 | 51 | 26 | 5 | 1 |
| Electrical | 851 | 503 | 488 | 67 | 70 | 295 | 56 | 15 | 0 |
| Industrial | 115 | 63 | 56 | 2 | 25 | 23 | 6 | 6 | 1 |
| Materials/metallurgical | 273 | 158 | 149 | 61 | 9 | 60 | 19 | 8 | 1 |
| Mechanical | 510 | 272 | 264 | 44 | 41 | 150 | 29 | 7 | 1 |
| Other engineering | 378 | 212 | 201 | 61 | 29 | 69 | 42 | 11 | 0 |
| Sciences, total | 9,251 | 5,898 | 5,535 | 2,681 | 1,303 | 863 | 688 | 348 | 15 |
| Physical sciences, total | 2,132 | 1,329 | 1,230 | 780 | 95 | 279 | 76 | 92 | 7 |
| Astronomy | 116 | 85 | 75 | 54 | 13 | 3 | 5 | 10 | 0 |
| Chemistry | 1,086 | 704 | 677 | 424 | 45 | 179 | 29 | 27 | 0 |
| Physics | 916 | 534 | 473 | 297 | 37 | 97 | 42 | 54 | 7 |
| Other physical sciences | 14 | 6 | 5 | 5 | 0 | 0 | 0 | 1 | 0 |
| Earth, atmospheric, and ocean sciences | 449 | 260 | 237 | 103 | 48 | 37 | 49 | 23 | 0 |
| Mathematics | 588 | 339 | 321 | 83 | 154 | 63 | 21 | 17 | 1 |
| Computer sciences | 474 | 297 | 282 | 34 | 95 | 125 | 28 | 14 | 1 |
| Biological sciences | 2,467 | 1,745 | 1,657 | 1,312 | 166 | 93 | 86 | 84 | 4 |
| Agricultural sciences | 463 | 279 | 253 | 80 | 61 | 76 | 36 | 26 | 0 |
| Psychology | 1,125 | 711 | 698 | 216 | 171 | 103 | 208 | 12 | 1 |
| Social sciences | 1,553 | 938 | 857 | 73 | 513 | 87 | 184 | 80 | 1 |
| Non-S&E, total | 5,746 | 3,695 | 3,542 | 187 | 2,022 | 286 | 1,047 | 150 | 3 |
| Grand total, all fields | 17,815 | 11,201 | 10,621 | 3,178 | 3,562 | 1,927 | 1,954 | 558 | 22 |

**SOURCE:** National Science Foundation/SRS, Survey of Earned Doctorates

## Table 10. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients, by sex and major field: 1995

[U.S. citizens and non-U.S. citizens with permanent visas]



| Field of study | Definite plans | In the United States | | | | | Abroad | Location unknown |
|---|---|---|---|---|---|---|---|---|
| | | Total in U.S. | Postdoc study | Academic employment | Industry employment | Other | | |
| | All such recipients | | | | | | | |
| Science and engineering, total | 100.0 | 95.1 | 41.0 | 22.8 | 18.4 | 13.0 | 4.7 | 0.2 |
| Engineering, total | 100.0 | 96.2 | 19.6 | 16.4 | 46.7 | 13.4 | 3.6 | .3 |
| Aeronautical/astronautical | 100.0 | 98.8 | 20.5 | 9.6 | 34.9 | 33.7 | 1.2 | 0 |
| Chemical | 100.0 | 96.3 | 20.7 | 10.3 | 56.6 | 8.7 | 3.7 | 0 |
| Civil | 100.0 | 96.0 | 15.0 | 32.9 | 31.8 | 16.2 | 3.5 | .6 |
| Electrical | 100.0 | 97.0 | 13.2 | 15.3 | 57.4 | 11.1 | 3.0 | 0 |
| Industrial | 100.0 | 89.9 | 2.5 | 45.6 | 32.9 | 8.9 | 8.9 | 1.3 |
| Materials/metallurgical | 100.0 | 95.0 | 35.3 | 5.5 | 41.8 | 12.4 | 4.5 | .5 |
| Mechanical | 100.0 | 96.9 | 17.4 | 15.7 | 52.9 | 10.9 | 2.4 | .7 |
| Other engineering | 100.0 | 95.5 | 30.9 | 15.8 | 29.1 | 19.6 | 4.5 | 0 |
| Sciences, total | 100.0 | 94.9 | 45.0 | 24.0 | 13.0 | 12.9 | 4.9 | .2 |
| Physical sciences, total | 100.0 | 93.1 | 57.8 | 9.4 | 20.1 | 5.8 | 6.4 | .5 |
| Astronomy | 100.0 | 88.6 | 65.7 | 14.3 | 3.8 | 4.8 | 11.4 | 0 |
| Chemistry | 100.0 | 95.8 | 58.6 | 9.1 | 23.5 | 4.6 | 4.0 | .2 |
| Physics | 100.0 | 89.4 | 54.9 | 9.3 | 17.4 | 8.0 | 9.4 | 1.1 |
| Other physical sciences | 100.0 | 87.5 | 75.0 | 0 | 12.5 | 0 | 12.5 | 0 |
| Earth, atmospheric, and ocean sciences | 100.0 | 92.1 | 40.2 | 18.4 | 13.7 | 19.8 | 7.9 | 0 |
| Mathematics | 100.0 | 95.3 | 22.0 | 49.6 | 17.5 | 6.3 | 4.5 | .2 |
| Computer sciences | 100.0 | 94.9 | 11.5 | 36.4 | 37.4 | 9.7 | 4.8 | .3 |
| Biological sciences | 100.0 | 95.4 | 76.5 | 9.3 | 4.7 | 4.9 | 4.3 | .3 |
| Agricultural sciences | 100.0 | 91.6 | 30.0 | 23.1 | 24.5 | 14.1 | 8.4 | 0 |
| Psychology | 100.0 | 98.7 | 30.1 | 25.1 | 15.2 | 28.2 | 1.3 | .1 |
| Social sciences | 100.0 | 92.7 | 10.4 | 56.0 | 8.4 | 17.9 | 7.2 | .1 |
| Non-S&E, total | 100.0 | 97.0 | 4.8 | 57.0 | 6.6 | 28.5 | 3.0 | .1 |
| Grand total, all fields | 100.0 | 95.9 | 26.1 | 36.9 | 13.5 | 19.4 | 4.0 | .2 |
| | Women | | | | | | | |
| Science and engineering, total | 100.0 | 96.5 | 42.9 | 26.6 | 12.4 | 14.5 | 3.4 | 0.2 |
| Engineering, total | 100.0 | 97.0 | 21.6 | 25.3 | 37.5 | 12.5 | 2.7 | .3 |
| Aeronautical/astronautical | 100.0 | 100.0 | 20.0 | 0 | 0 | 80.0 | 0 | 0 |
| Chemical | 100.0 | 96.8 | 19.4 | 12.9 | 58.1 | 6.5 | 3.2 | 0 |
| Civil | 100.0 | 96.8 | 16.1 | 61.3 | 12.9 | 6.5 | 3.2 | 0 |
| Electrical | 100.0 | 96.9 | 12.3 | 26.2 | 47.7 | 10.8 | 3.1 | 0 |
| Industrial | 100.0 | 93.8 | 0 | 68.8 | 18.8 | 6.3 | 6.3 | 0 |
| Materials/metallurgical | 100.0 | 97.7 | 23.3 | 4.7 | 55.8 | 14.0 | 2.3 | 0 |
| Mechanical | 100.0 | 95.2 | 33.3 | 23.8 | 23.8 | 14.3 | 0 | 4.8 |
| Other engineering | 100.0 | 98.1 | 39.6 | 24.5 | 15.1 | 18.9 | 1.9 | 0 |
| Sciences, total | 100.0 | 96.4 | 44.4 | 26.7 | 10.6 | 14.7 | 3.4 | .1 |
| Physical sciences, total | 100.0 | 94.7 | 55.0 | 16.2 | 17.6 | 5.9 | 4.8 | .5 |
| Astronomy | 100.0 | 90.0 | 75.0 | 10.0 | 5.0 | 0 | 10.0 | 0 |
| Chemistry | 100.0 | 94.9 | 55.1 | 14.7 | 19.5 | 5.7 | 4.5 | .6 |
| Physics | 100.0 | 95.1 | 50.0 | 24.4 | 12.2 | 8.5 | 4.9 | 0 |
| Other physical sciences | 100.0 | 100.0 | 50.0 | 0 | 50.0 | 0 | 0 | 0 |
| Earth, atmospheric, and ocean sciences | 100.0 | 95.2 | 42.2 | 18.1 | 12.0 | 22.9 | 4.8 | 0 |
| Mathematics | 100.0 | 97.2 | 14.0 | 62.6 | 14.0 | 6.5 | 2.8 | 0 |
| Computer sciences | 100.0 | 94.8 | 11.5 | 50.0 | 22.9 | 10.4 | 5.2 | 0 |
| Biological sciences | 100.0 | 96.0 | 78.3 | 8.9 | 3.9 | 4.9 | 3.7 | .3 |
| Agricultural sciences | 100.0 | 95.6 | 35.3 | 27.9 | 13.2 | 19.1 | 4.4 | 0 |
| Psychology | 100.0 | 98.9 | 30.0 | 25.7 | 15.6 | 27.6 | 1.1 | 0 |
| Social sciences | 100.0 | 94.4 | 13.6 | 57.8 | 7.2 | 15.8 | 5.6 | 0 |
| Non-S&E, total | 100.0 | 97.8 | 4.6 | 58.9 | 5.7 | 28.7 | 2.1 | .1 |
| Grand total, all fields | 100.0 | 97.2 | 23.2 | 43.3 | 9.0 | 21.8 | 2.7 | .1 |

See explanatory information, if any, and SOURCE at end of table.

## Table 10. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients, by sex and major field: 1995

[U.S. citizens and non-U.S. citizens with permanent visas]



| Field of study | Definite plans | In the United States | | | | | Abroad | Location unknown |
|---|---|---|---|---|---|---|---|---|
| | | Total in U.S. | Postdoc study | Academic employment | Industry employment | Other | | |
| | Men | | | | | | | |
| Science and engineering, total | 100.0 | 94.3 | 39.8 | 20.5 | 21.9 | 12.1 | 5.4 | 0.3 |
| Engineering, total | 100.0 | 96.0 | 19.3 | 14.7 | 48.4 | 13.6 | 3.7 | .2 |
| Aeronautical/astronautical | 100.0 | 98.7 | 20.5 | 10.3 | 37.2 | 30.8 | 1.3 | 0 |
| Chemical | 100.0 | 96.1 | 21.1 | 9.4 | 56.1 | 9.4 | 3.9 | 0 |
| Civil | 100.0 | 95.8 | 14.8 | 26.8 | 35.9 | 18.3 | 3.5 | .7 |
| Electrical | 100.0 | 97.0 | 13.3 | 13.9 | 58.6 | 11.1 | 3.0 | 0 |
| Industrial | 100.0 | 88.9 | 3.2 | 39.7 | 36.5 | 9.5 | 9.5 | 1.6 |
| Materials/metallurgical | 100.0 | 94.3 | 38.6 | 5.7 | 38.0 | 12.0 | 5.1 | .6 |
| Mechanical | 100.0 | 97.1 | 16.2 | 15.1 | 55.1 | 10.7 | 2.6 | .4 |
| Other engineering | 100.0 | 94.8 | 28.8 | 13.7 | 32.5 | 19.8 | 5.2 | 0 |
| Sciences, total | 100.0 | 93.8 | 45.5 | 22.1 | 14.6 | 11.7 | 5.9 | .3 |
| Physical sciences, total | 100.0 | 92.6 | 58.7 | 7.1 | 21.0 | 5.7 | 6.9 | .5 |
| Astronomy | 100.0 | 88.2 | 63.5 | 15.3 | 3.5 | 5.9 | 11.8 | 0 |
| Chemistry | 100.0 | 96.2 | 60.2 | 6.4 | 25.4 | 4.1 | 3.8 | 0 |
| Physics | 100.0 | 88.6 | 55.6 | 6.9 | 18.2 | 7.9 | 10.1 | 1.3 |
| Other physical sciences | 100.0 | 83.3 | 83.3 | 0 | 0 | 0 | 16.7 | 0 |
| Earth, atmospheric, and ocean sciences | 100.0 | 91.2 | 39.6 | 18.5 | 14.2 | 18.8 | 8.8 | 0 |
| Mathematics | 100.0 | 94.7 | 24.5 | 45.4 | 18.6 | 6.2 | 5.0 | .3 |
| Computer sciences | 100.0 | 94.9 | 11.4 | 32.0 | 42.1 | 9.4 | 4.7 | .3 |
| Biological sciences | 100.0 | 95.0 | 75.2 | 9.5 | 5.3 | 4.9 | 4.8 | .2 |
| Agricultural sciences | 100.0 | 90.7 | 28.7 | 21.9 | 27.2 | 12.9 | 9.3 | 0 |
| Psychology | 100.0 | 98.2 | 30.4 | 24.1 | 14.5 | 29.3 | 1.7 | .1 |
| Social sciences | 100.0 | 91.4 | 7.8 | 54.7 | 9.3 | 19.6 | 8.5 | .1 |
| Non-S&E, total | 100.0 | 95.9 | 5.1 | 54.7 | 7.7 | 28.3 | 4.1 | .1 |
| Grand total, all fields | 100.0 | 94.8 | 28.4 | 31.8 | 17.2 | 17.4 | 5.0 | .2 |

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates.

Form Approved, OMB No. 3145-0019 Approval Expires 6/95

# SURVEY OF EARNED DOCTORATES 1994–95

Please return this form to the GRADUATE DEAN for forwarding to
The Office of Scientific and Engineering Personnel, National Research Council • 2101 Constitution Avenue, N.W., Washington, D.C. 20418

**Please print or type.**

1. Name in full: _____ (Last Name) _____ (First Name) _____ (Middle Name)
Cross Reference: Maiden name or former name legally changed _____

2. Permanent address through which you could always be reached: (Care of, if applicable) _____
_____ (Number) _____ (Street) _____ (City)
_____ (State) _____ (Zip Code) _____ (Or Country if not U.S.)

3. U.S. Social Security Number: ___ ___ ___ - ___ ___ - ___ ___ ___ ___

4. Place of birth: _____ (State) _____ (or Country if not U.S.) Date of birth: _____ (Month) _____ (Day) _____ (Year)

5. Sex: 1 ☐ Male 2 ☐ Female

6. Marital status: 0 ☐ Single, never married 1 ☐ Married 2 ☐ Separated, divorced, widowed

7. Citizenship:
0 ☐ United States, native
1 ☐ United States, naturalized
Non-United States:
2 ☐ Permanent Resident of United States (Immigrant visa)
↳ _____ (Country of present citizenship)
3 ☐ Temporary Resident of United States (Non-immigrant visa)
↳ _____ (Country of present citizenship)

8. Are you a person with a disability? ☐ Yes ☐ No
If yes, is it: 1 ☐ Visual 2 ☐ Orthopedic (mobility) 3 ☐ Auditory (hearing) 4 ☐ Vocal 5 ☐ Other (specify) _____

9. What is your racial background? (Check only one.) 0 ☐ American Indian or Alaskan Native 1 ☐ Asian or Pacific Islander 2 ☐ Black 3 ☐ White

10. Are you Hispanic? ☐ No ☐ Yes → 0 ☐ Mexican American 1 ☐ Puerto Rican 2 ☐ Other Hispanic

11. How many dependents do you have? _____ Do not include yourself.
(Dependent = someone receiving at least one half of his or her support from you.)

## EDUCATION

12. Location of high school/secondary school last attended: _____ (State) _____ (or Country if not U.S.) Date of graduation from high school: _____ (Month/Year)

13. List below, chronologically, all colleges (including 2-year) and graduate institutions you have attended and each degree earned (if any). Be sure to give the years attended for ALL institutions attended. Include your doctoral institution(s) (and degree) at the end.

| Institution/Branch | State/Country | Years Attended From | Years Attended To | Field of Study — Use Specialties List Name | Field of Study — Use Specialties List Number | Degree (if any) Title | Degree (if any) Granted Mo | Degree (if any) Granted Yr |
|---|---|---|---|---|---|---|---|---|
| *EXAMPLE* *Genesee Community College* | *NY* | *79* | *81* | *Math* | *498* | — | — | — |
| *SUNY/Buffalo* | *NY* | *81* | *83* | *Computer Science* | *400* | *B.S.* | *6* | *83* |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

If a baccalaureate degree (or equivalent) was never received, please check box ☐

14. How many years were you a **full-time** student between receiving your first baccalaureate degree (or equivalent) and receiving your doctorate (include the period spent on your thesis and/or dissertation) _____ (whole numbers)

15. Identify the field of your dissertation research and enter below the title of your dissertation. If a project report or a musical or literary composition is a degree requirement in lieu of a dissertation, please check box ☐ Name of field _____ Number of field _____ (Use Specialties List)
Title _____

16. Name the department (or interdisciplinary committee, center, institute, etc.) and school or college of the university which supervised your doctoral program.
_____ (Department/Institute/Committee/Program) _____ (School)


(continued on next page)

17. Indicate your **primary** and **secondary** sources of support during graduate school by entering "1" or "2" in the appropriate box. Check (✓) all other sources from which support was received, if any. (Enter only one source as "1" and one source as "2.")

Own/Family Resources
01 ☐ Own Earnings
02 ☐ Spouse's Earnings
03 ☐ Family Contributions

University-Related
10 ☐ Teaching Assistant
11 ☐ Research Assistant
12 ☐ University Fellow
14 ☐ College Work-Study
19 ☐ Other
Specify

Federal Research Assistant
22 ☐ NIH
32 ☐ NSF
52 ☐ USDA
62 ☐ Other Federal
Specify

Other Federal Support
21 ☐ NIH Traineeship/Fellowship
29 ☐ Other HHS
33 ☐ NSF Fellowship
40 ☐ Patricia Roberts-Harris Fellowship — formerly G*POP (Department of Education)
44 ☐ Title VI Foreign Language

Other Federal Support (continued)
49 ☐ Other Dept. Education
60 ☐ Veterans Administration
53 ☐ USDA Fellowship
69 ☐ Other Federal
Specify

U.S. Nationally Competitive Fellowships (Non-Federal)
70 ☐ Ford Foundation
71 ☐ Rockefeller Foundation
73 ☐ Mellon Foundation
78 ☐ Other Fellowship
Specify

Student Loans
80 ☐ Guaranteed Student Loan (Stafford Loan)
81 ☐ Perkins Loan — formerly National Direct Student Loan
89 ☐ Other Loan
Specify

Other Sources
90 ☐ Business/Employer
91 ☐ Foreign (Non-U.S.) Government
92 ☐ State Government
99 ☐ Other
Specify

18. When you receive your doctorate degree, how much money will you owe that is directly related to your undergraduate and/or graduate education (tuition and fees, living expenses and supplies, transportation to and from school)?

0 ☐ None
1 ☐ $5,000 or less
2 ☐ $5,001-$10,000
3 ☐ $10,001-$15,000
4 ☐ $15,001-$20,000
5 ☐ $20,001-$25,000
6 ☐ $25,001-$30,000
7 ☐ $30,001 or more

19A. Please check the category that most fully describes your status for employment or study during the year immediately preceding the award of the doctorate.

0 ☐ Full-time employed → Go to item 19B →
1 ☐ Held fellowship
2 ☐ Held assistantship
3 ☐ Part-time employed
4 ☐ Not employed
5 ☐ Other (specify) _____

B. If full-time employed, what type of position did you hold?

6 ☐ College or university, faculty
7 ☐ College or university, non-faculty
8 ☐ Elementary or secondary school, teaching
9 ☐ Elementary or secondary school, non-teaching
(11) ☐ Industry or business
(12) ☐ Other (specify) _____

## POSTGRADUATION PLANS

20. How definite are your immediate postgraduate plans?

0 ☐ Am returning to, or continuing in, predoctoral employment
1 ☐ Have signed contract or made definite commitment
2 ☐ Am negotiating with one or more specific organizations
3 ☐ Am seeking position but have no specific prospects
4 ☐ Other (specify) _____

21. What best describes your immediate postgraduate plans?

**Study** (→ For **study** plans go to item 22)
0 ☐ Postdoctoral fellowship
1 ☐ Postdoctoral research associateship
2 ☐ Traineeship
3 ☐ Other study (specify) _____

(→ For **employment** plans go to item 23)
4 ☐ **Employment** (other than 0, 1, 2, 3)
5 ☐ **Military service**
6 ☐ **Other** (specify) _____

22. If you plan to have a postdoctoral fellowship, associateship, traineeship, or otherwise undertake further **study**,

A. What will be the field of your postdoctoral **study?** Please enter number from **Specialties List.** _____

B. What will be the main source of financial support for your study research?

0 ☐ U.S. Government
1 ☐ College or university
2 ☐ Private foundation
3 ☐ Nonprofit, other than private foundation
4 ☐ Other (specify) _____
6 ☐ Unknown

Go to item 24

23. If you plan to be **employed, enter military service** or **other:**

A. For what type of **employer** will you be working?

Education
a ☐ U.S. 4-yr college or university other than medical school
b ☐ U.S. medical school
c ☐ U.S. jr. or community college
d ☐ Elementary or secondary school
e ☐ Foreign institution

Government
f ☐ Foreign government
g ☐ U.S. federal government
h ☐ U.S. state government
i ☐ U.S. local government

Private Sector
j ☐ Nonprofit organization
k ☐ Industry or business
l ☐ Self-employed

Other
m ☐ Other (specify) _____

B. Indicate what your **primary** and **secondary** work activities will be by entering "1" or "2" in the appropriate box.

0 ☐ Research and development
1 ☐ Teaching
2 ☐ Administration
3 ☐ Professional services to individuals
5 ☐ Other (specify) _____

C. In what field will you be working? Please enter number from **Specialties List** _____

Go to item 24

24. Where do you intend to live/work/study after graduation? 0 ☐ in U.S. _____ *State* 1 ☐ not in U.S. _____ *Country*

_____ *City of Organization, if known*

_____ *Name of Organization, if known*

25. What is the highest educational attainment of your mother and father? Please circle.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Father | Less than high school | High school graduate | Some college | Bachelor's | Master's | Professional | Doctorate |
| Mother | Less than high school | High school graduate | Some college | Bachelor's | Master's | Professional | Doctorate |
| *Codes for office use* | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

Signature _____ Date _____

If you would like a summary of the results of this survey, please check box. ☐ (Available as funding permits.)



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